

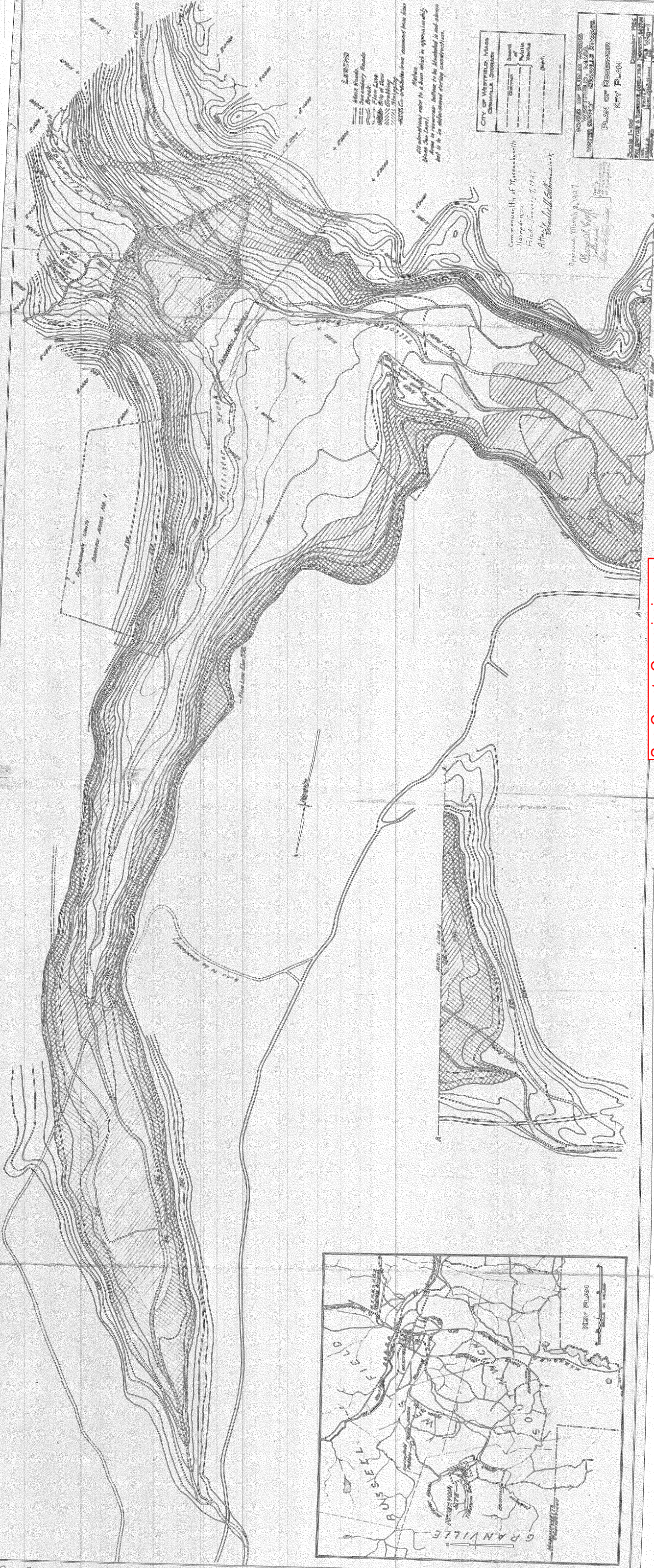
Plan Original Book and Page: ch17001

Name of specific Plan:

Granville Storage Dam and Reservoir



Category	Index
Abutters	Westfield City Public Works
City/Town	Russell
City/Town	Westfield
City/Town	Southwick
City/Town	Granville
Streets	College Highway
Water	Munns Brook
Water	Little Water
Water	Hollister Brook
Water	Dickinson Brook
Water	Tillotson Brook



LEGEND

- Main Road
- Secondary Road
- Brook
- Flow Line
- Site of Dam
- Graveling

All elevations are in feet above sea level. The flow line is shown in a dashed line. The site of the dam is shown in a solid line. The graveling is shown in a hatched area.

CITY OF WESTFIELD, MASS. CRANVILLE STORAGE	
Scale	1" = 100'
North Arrow	
Flow Line	
Site of Dam	
Graveling	

BOARD OF PUBLIC WORKS WESTFIELD, MASS. WATER SUPPLY CRANVILLE STORAGE	
PLAN OF RESERVOIR	
KEY PLAN	
Scale	1" = 100'
North Arrow	
Flow Line	
Site of Dam	
Graveling	

Commonwealth of Massachusetts
Hampden Co.
Filed January 7, 1927
Attest: Charles H. Colburn, Clerk

Approved: March 9, 1927
Charles H. Colburn, Clerk

See County Commissioners
Book 20 Page 56

Chief Commissioner
Book 20 Page 56

Plan Original Book and Page: ch17003

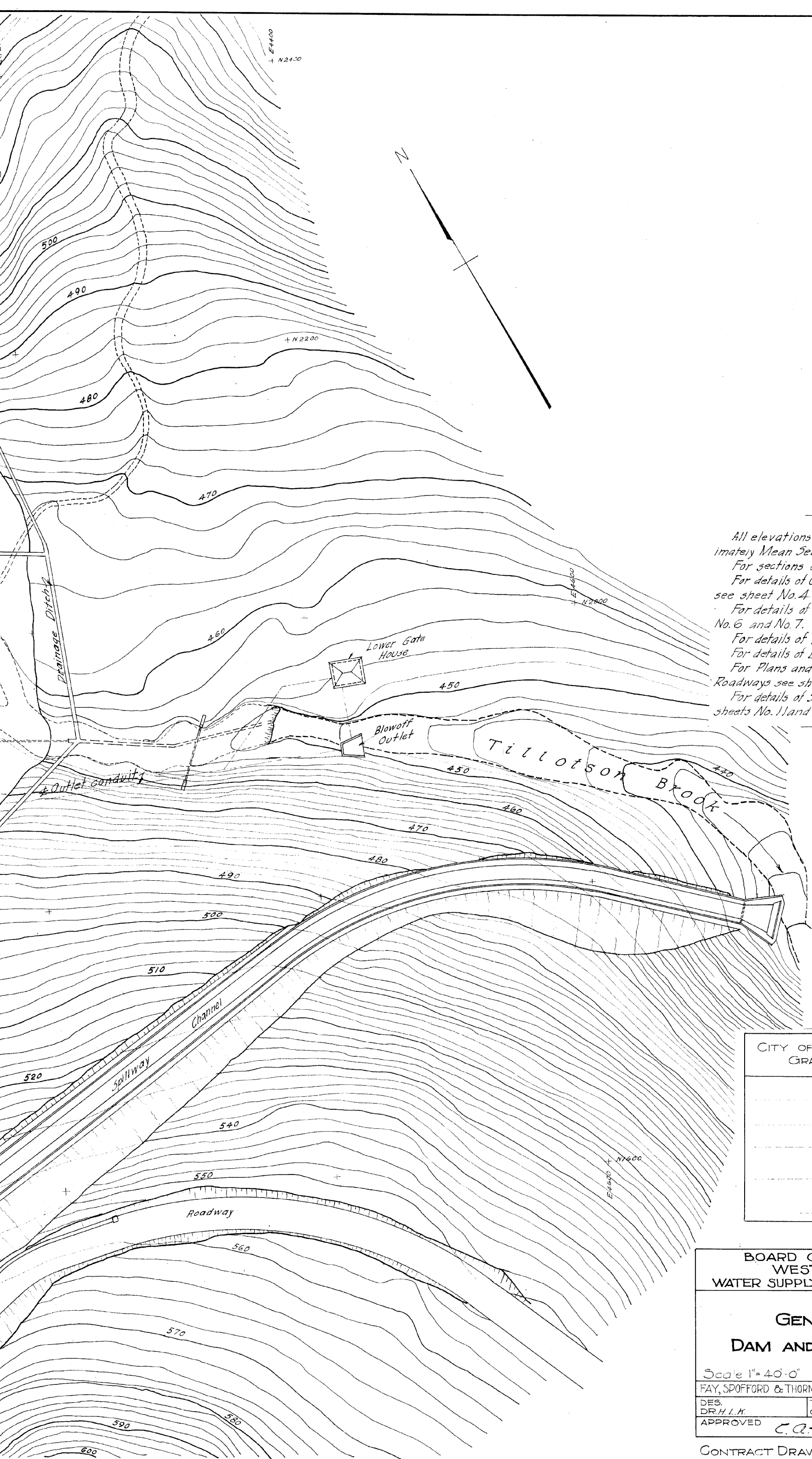
Name of specific Plan:

**Board of Public Works Westfield Mass Water Supply-Granville
Storage-General Plan-Dam & Appurtenances**



Category	Index
City/Town	Granville
Water	Tillotson Brook





Notes.

All elevations refer to a base which is approximately Mean Sea Level.

For sections of Dam see sheet No. 3.

For details of Outlet Conduit and Diversion Ditch see sheet No. 4.

For details of Upper Gate House see sheets No. 5, No. 6 and No. 7.

For details of Foot Bridge see sheet No. 8.

For details of Lower Gate House see sheet No. 9.

For Plans and Profiles of Spillway Channel and Roadways see sheet No. 10.

For details of Spillway, Bridge and Channel see sheets No. 11 and No. 12.

CITY OF WESTFIELD, MASS.
GRANVILLE STORAGE

Chairman

Board
of
Public
Works

Supt.

BOARD OF PUBLIC WORKS
WESTFIELD, MASS.
WATER SUPPLY GRANVILLE STORAGE

GENERAL PLAN DAM AND APPURTENANCES

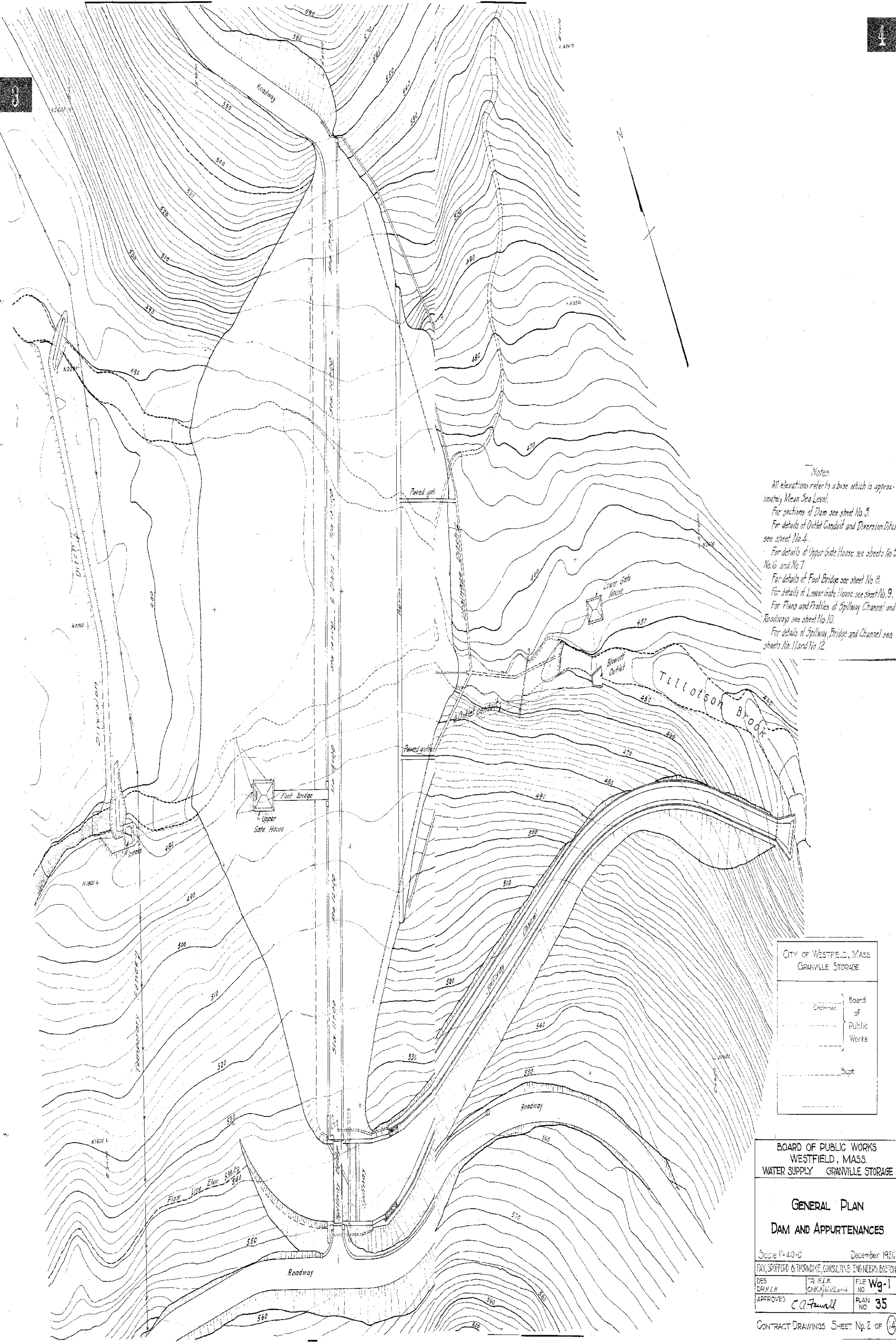
Scale 1"=40'-0"

December 1926

FAY, SPOFFORD & THORNDIKE, CONSULTING ENGINEERS, BOSTON

DES. DR. H. L. H.	CHK. H. J. Williams	FILE NO. Wg-1
APPROVED <i>C. A. Fawell</i>		PLAN NO. 35

CONTRACT DRAWINGS SHEET No. 2 OF (14)



Notes
All elevations refer to a base which is approximately Mean Sea Level.
For sections of Dam see sheet No. 3.
For details of Outlet Conduit and Diversion Ditch see sheet No. 4.
For details of Upper Gate House see sheets No. 5, No. 6 and No. 7.
For details of Foot Bridge see sheet No. 8.
For details of Lower Gate House see sheet No. 9.
For Plans and Profiles of Spillway Channel and Roadways see sheet No. 10.
For details of Spillway, Bridge and Channel see sheets No. 11 and No. 12.

CITY OF WESTFIELD, MASS. GRANVILLE STORAGE	
Chairman	Board of Public Works
Sup't	

BOARD OF PUBLIC WORKS WESTFIELD, MASS. WATER SUPPLY GRANVILLE STORAGE	
GENERAL PLAN DAM AND APPURTENANCES	
Scale 1"=40'-0"	December 1926
FAY, SPOFFORD & THORNDIKE, CONSULTING ENGINEERS, BOSTON	
DES. DR. H. L. H.	FILE NO. Wg-1
APPROVED C. A. Fawcett	PLAN NO. 35
CONTRACT DRAWINGS SHEET No. 2 OF 14	

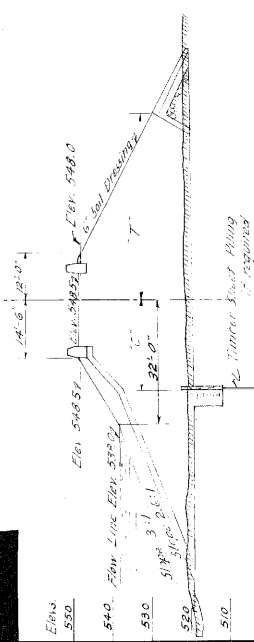
Plan Original Book and Page: **ch17005**

Name of specific Plan:

**Board of Public Works Westfield Mass Water Supply-Granville
Storage-Cross Sections of Dam-Details of Crest**



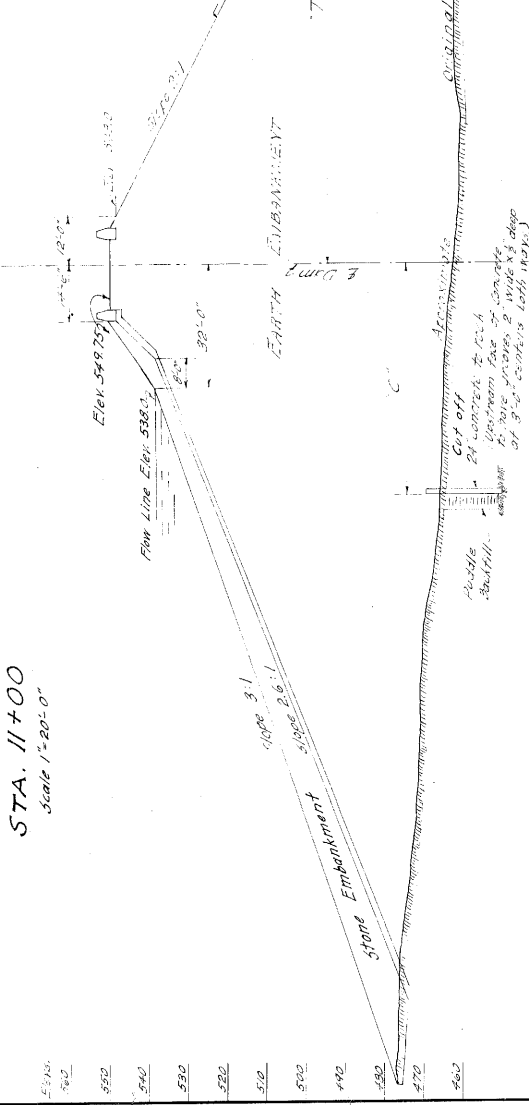
<u>Category</u>	<u>Index</u>
City/Town	Granville
Dam	Westfield Water Supply-Gran



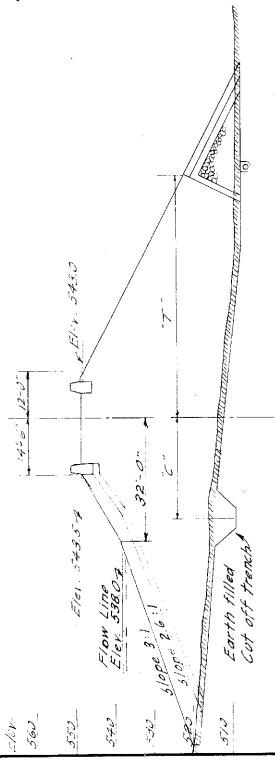
STA. 11+00
Scale 1"=20'-0"

DISTANCE	STATION	DISTANCE	STATION
28.0	101.30	-16.0	91.24
28.0	101.50	-16.0	91.68
142.5	131.30	+16.0	101.00
142.5	151.30	+16.0	101.22
48.0	171.30	+60.0	101.75
28.0	171.50	+60.0	101.20
28.0	END	2.0	117.51

INTERPOLATE FOR INTERMEDIATE STATIONS

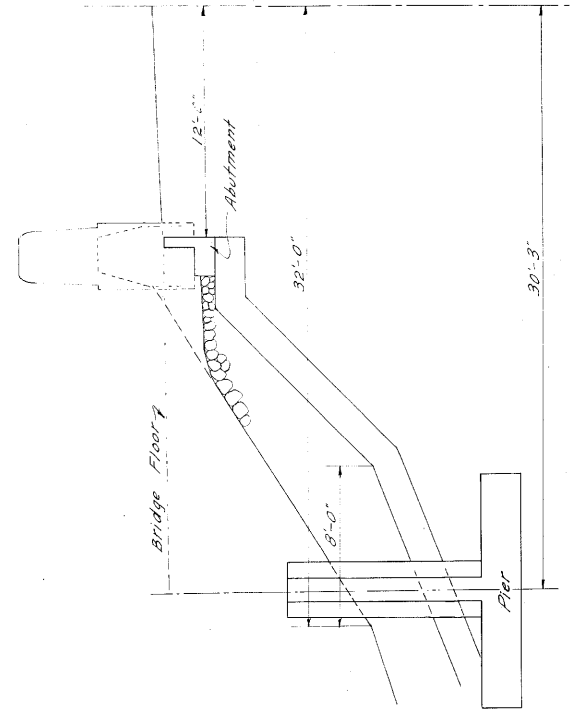


STA. 13+50
Scale 1"=20'-0"

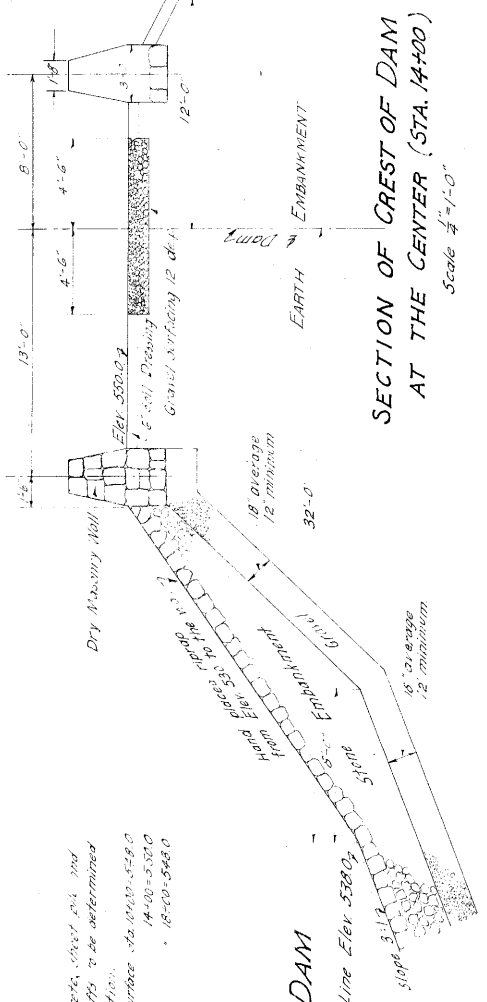


STA. 17+00
Scale 1"=20'-0"

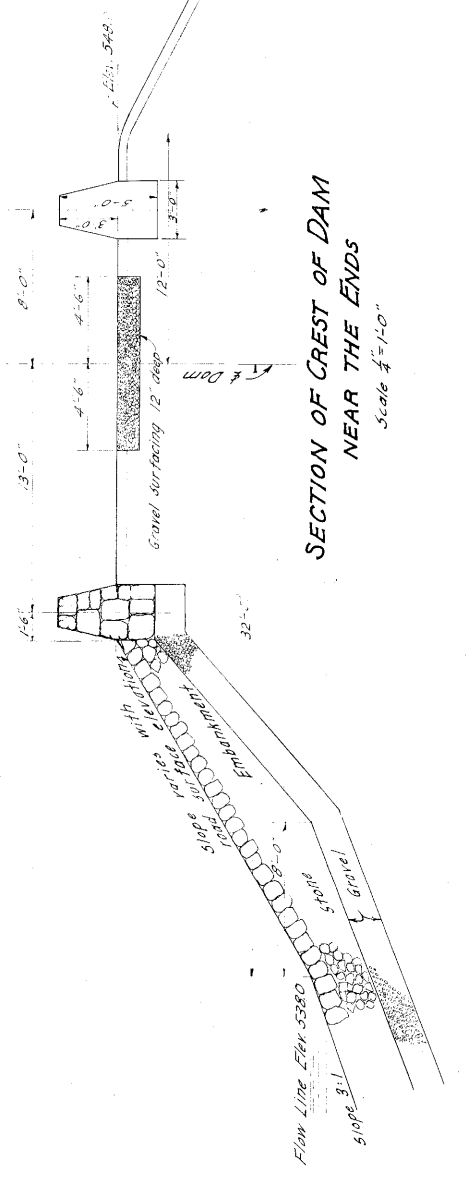
TYPICAL SECTIONS OF DAM



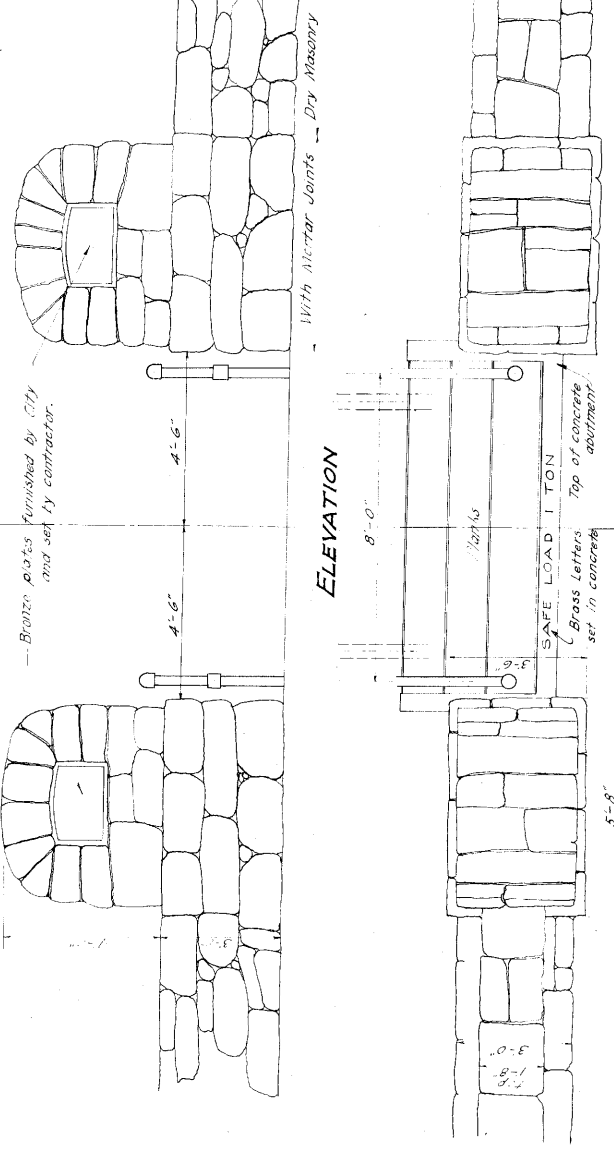
SECTION ON CENTER LINE OF FOOT BRIDGE
Scale 1/4"=1'-0"



SECTION OF CREST OF DAM
AT THE CENTER (STA. 14+00)
Scale 1/4"=1'-0"

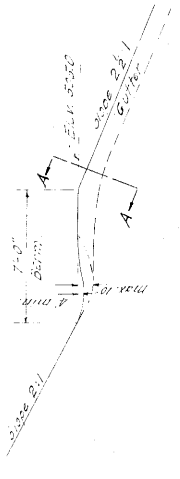


SECTION OF CREST OF DAM
NEAR THE ENDS
Scale 1/4"=1'-0"



ELEVATION

PLAN
ENTRANCE TO FOOT BRIDGE
Scale 1/2"=1'-0"



SECTION A-A
SECTION OF BERM AND GUTTER
Scale 1/2"=1'-0"

Notes
All elevations refer to a base which is approximately Mean Sea Level.
For details of Foot Bridge see sheet No. 5.

- LEGEND
- Concrete in section
 - Hand placed riprap in section
 - Stone embankment in section
 - Gravel embankment in section
 - Approximate original ground surface
 - Water Surface

CITY OF WESTFIELD, MASS.
GRANVILLE STORAGE

Board of Public Works
Chairman
Supt.

BOARD OF PUBLIC WORKS
WESTFIELD, MASS.
WATER SUPPLY
GRANVILLE STORAGE

CROSS SECTIONS OF DAM
DETAILS OF CREST

Scales as noted December, 1920
FAY, SPOFFORD & THORNDIKE CONSULTING ENGINEERS BOSTON
DES. H. J. W. FILE NO. 100
CHK. J. J. W. NO. 100
APPROVED C. A. Fawcett PLAN NO. 36

CONTRACT DRAWINGS SHEET No. 3 OF 14

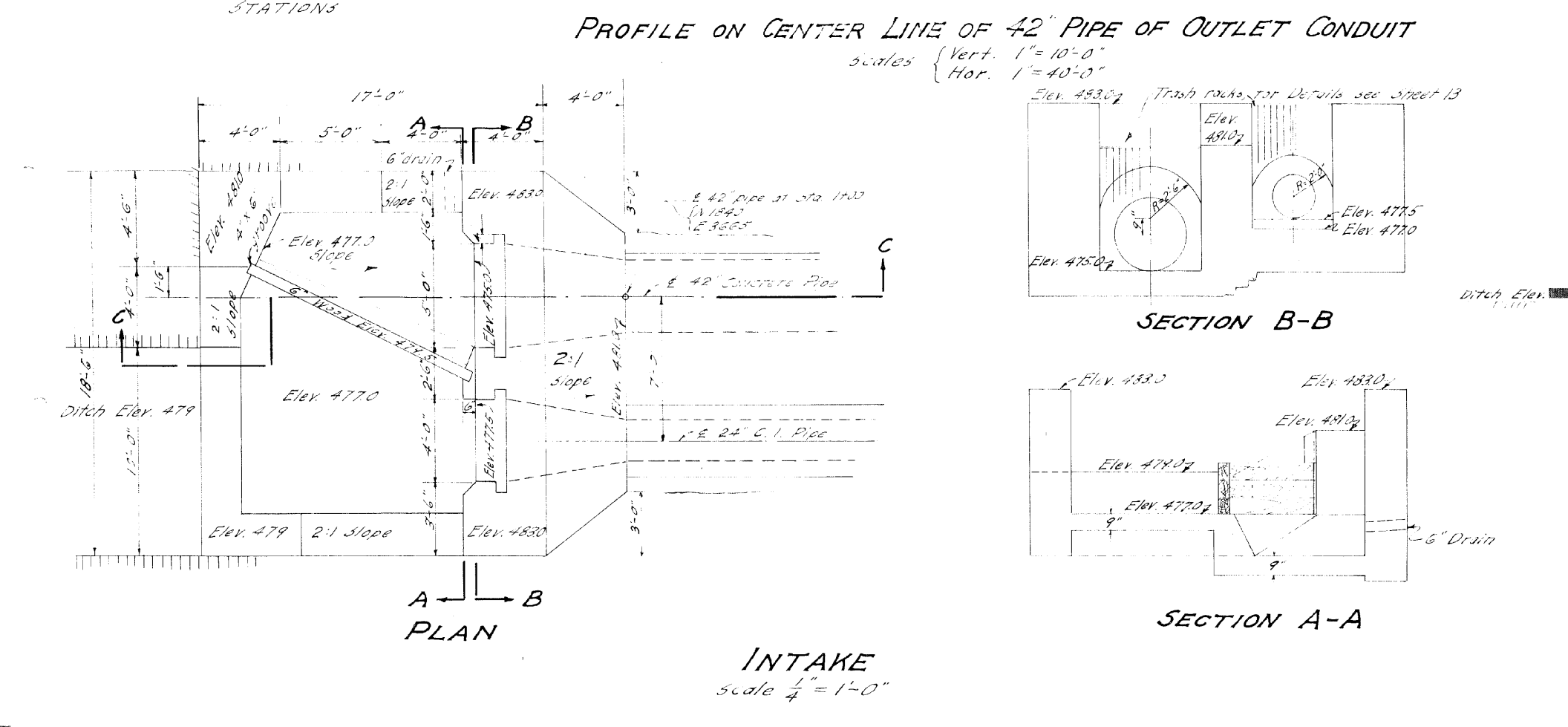
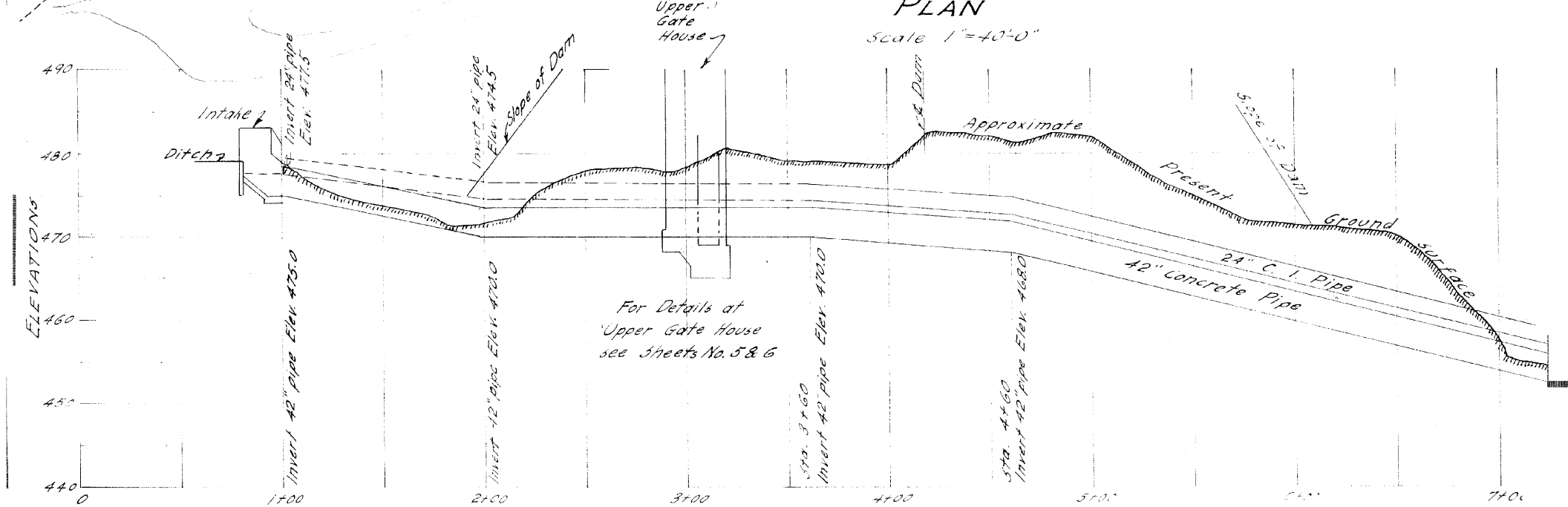
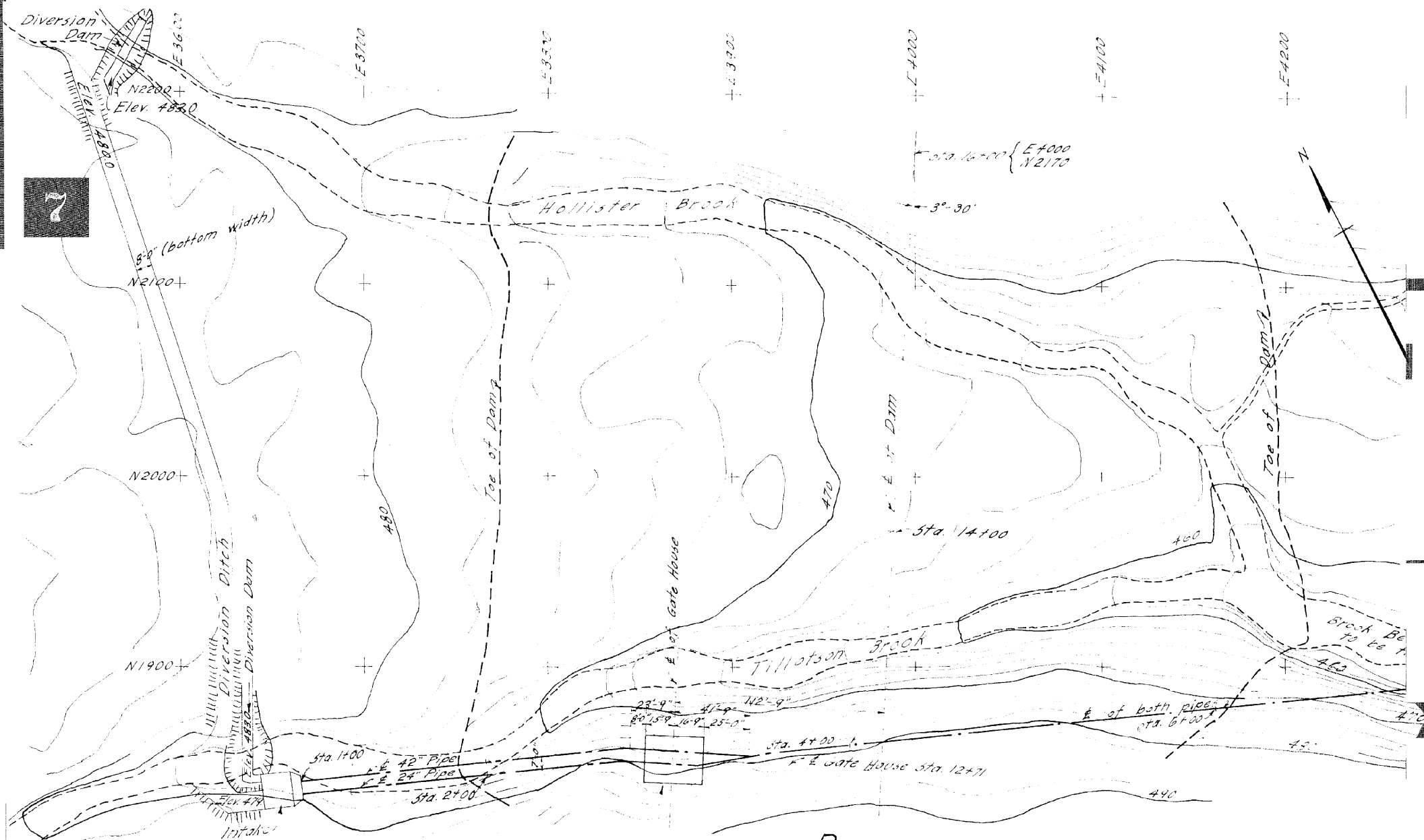
Plan Original Book and Page: ch17007

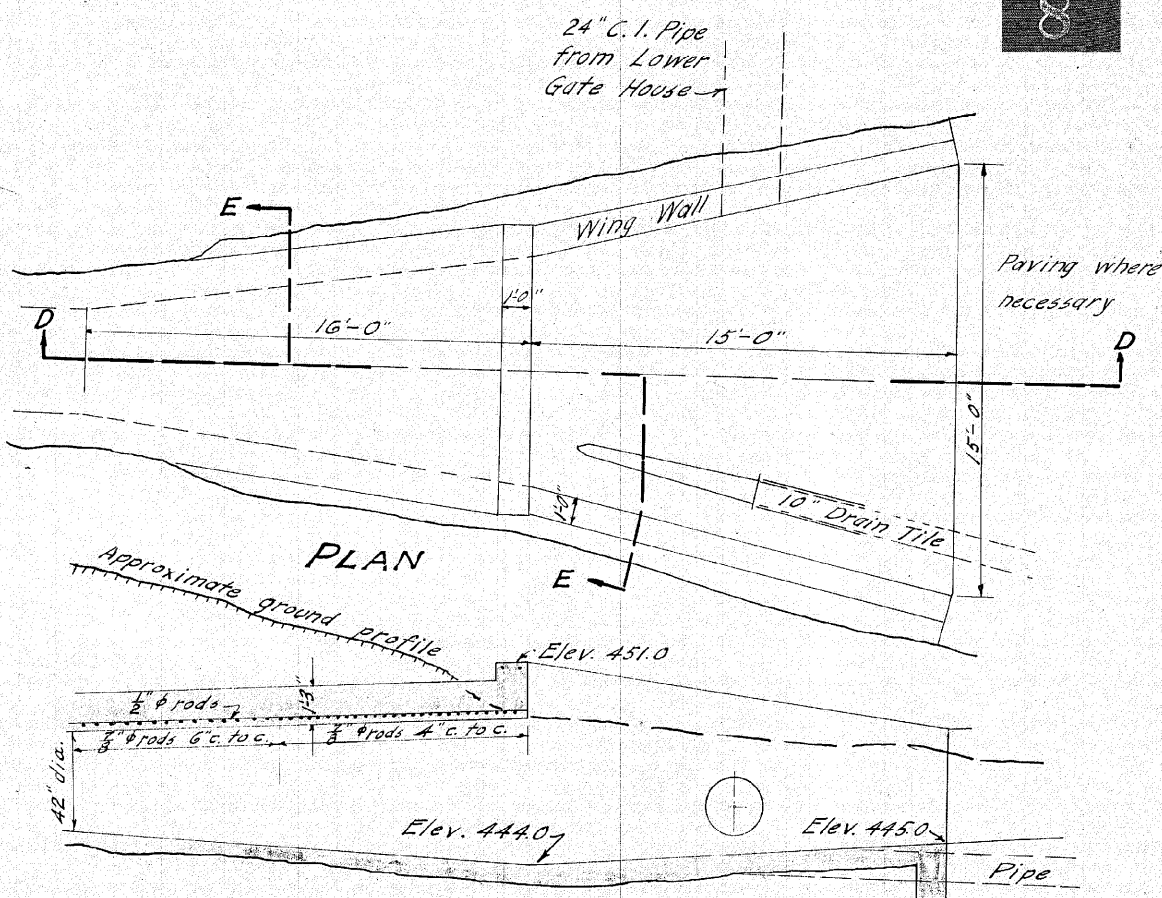
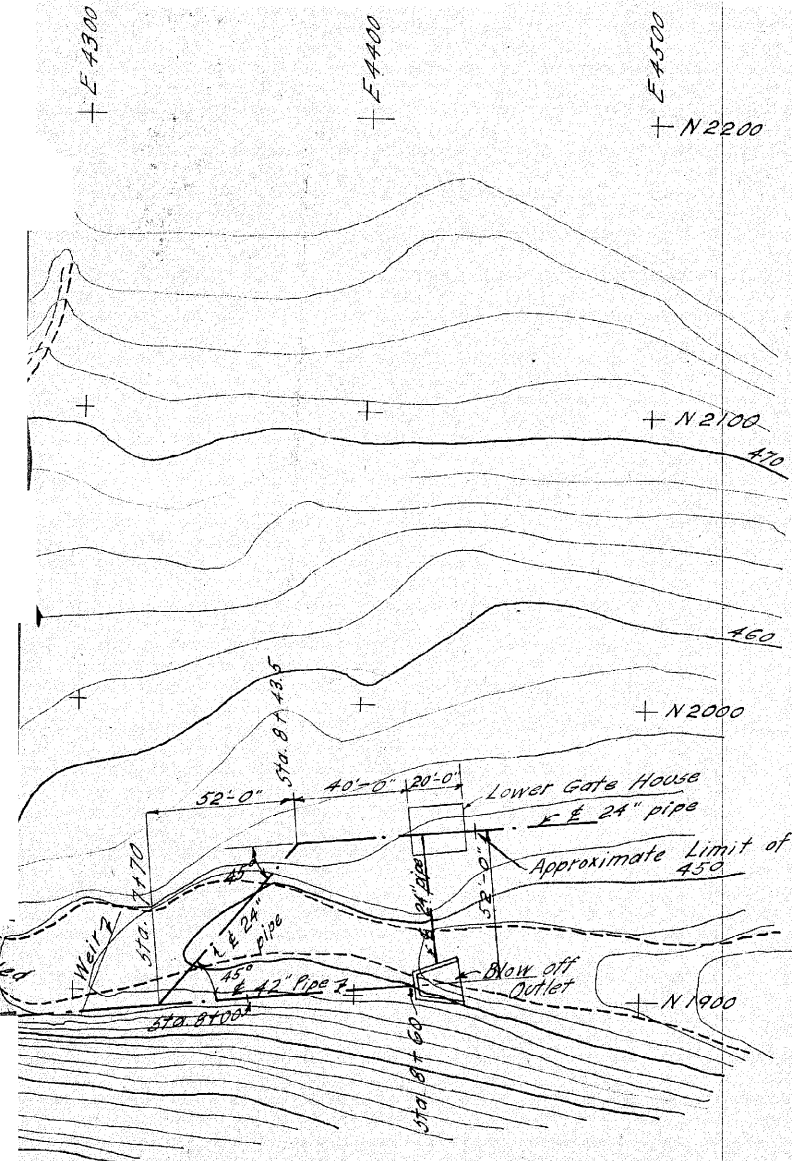
Name of specific Plan:

**Board of Public Works Westfield Mass Water Supply-Granville
Storage-Outlet Conduit**

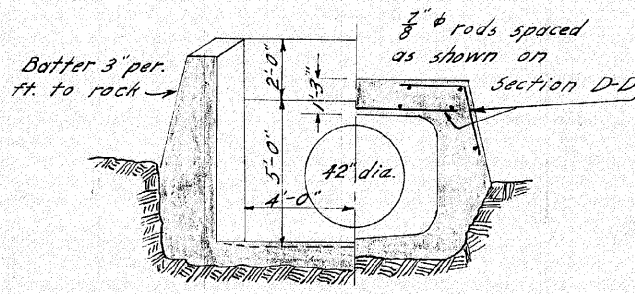


<u>Category</u>	<u>Index</u>
City/Town	Granville

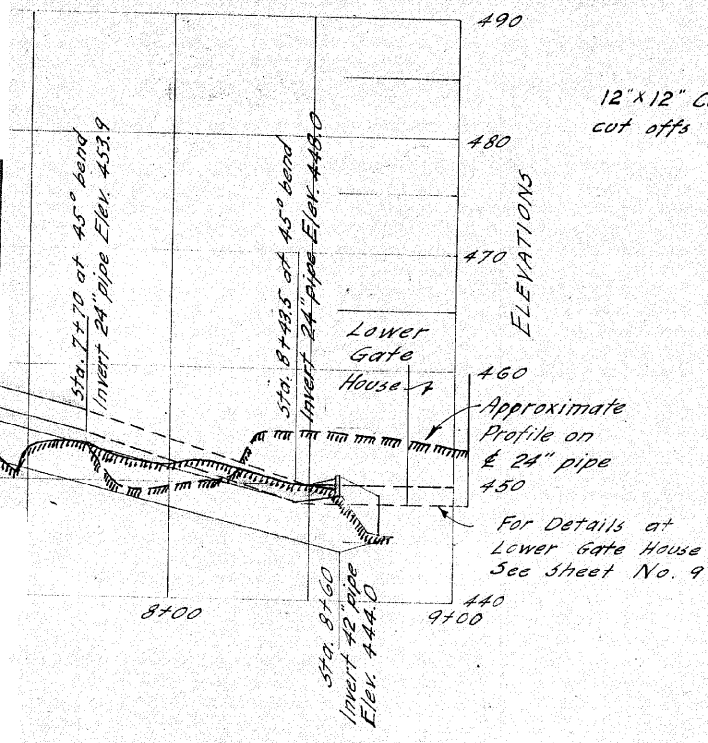




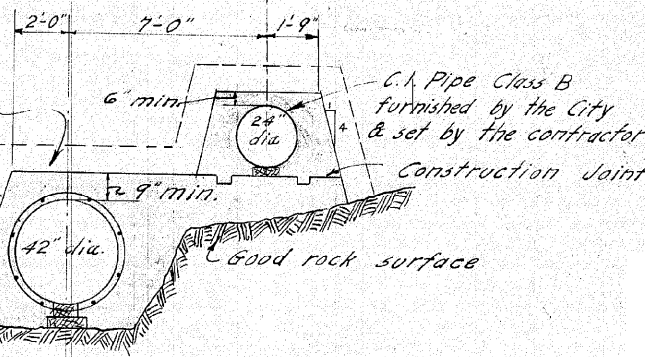
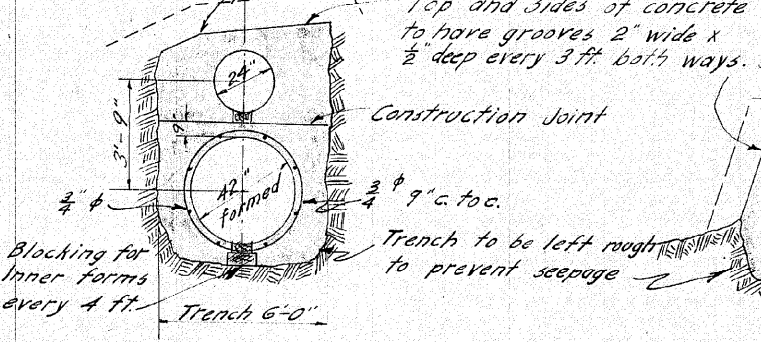
SECTION D-D



BLOW OFF OUTLET
Scale 1/4" = 1'-0"



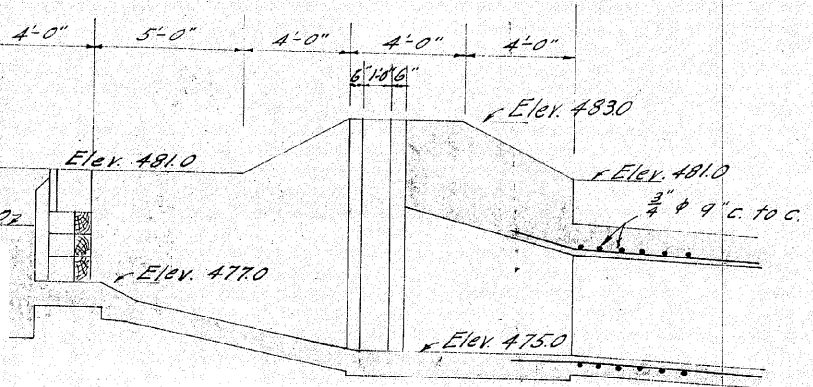
12"x12" Collars every 30' for cut offs at top of concrete



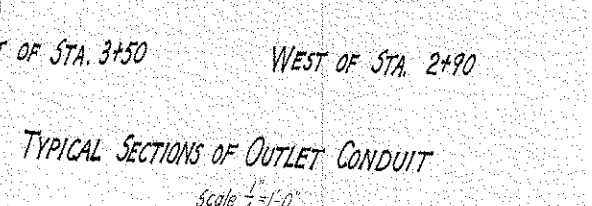
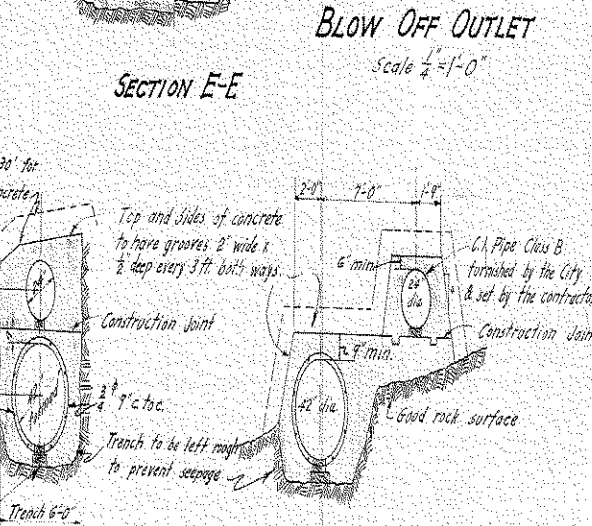
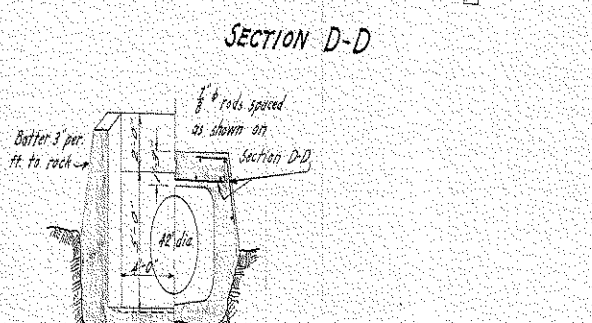
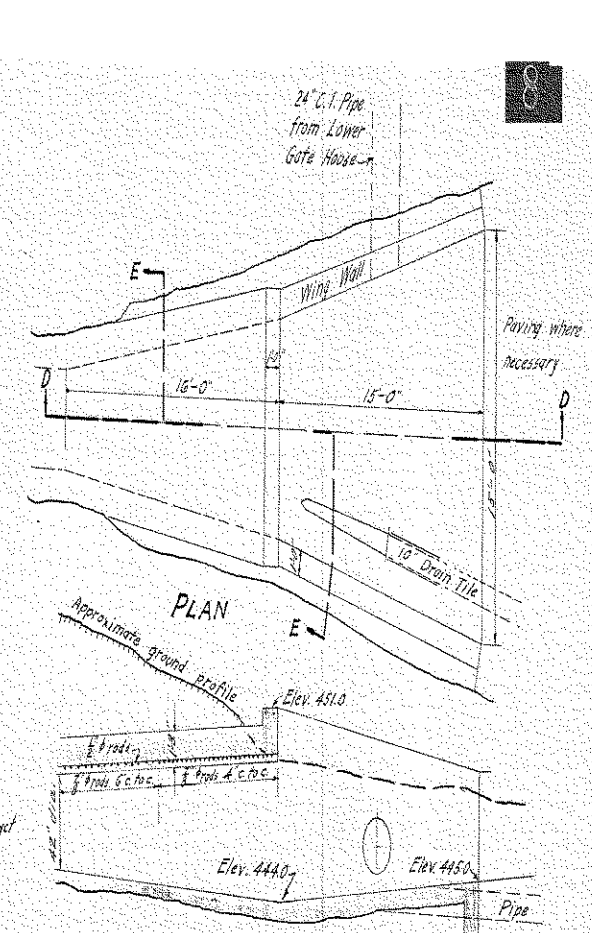
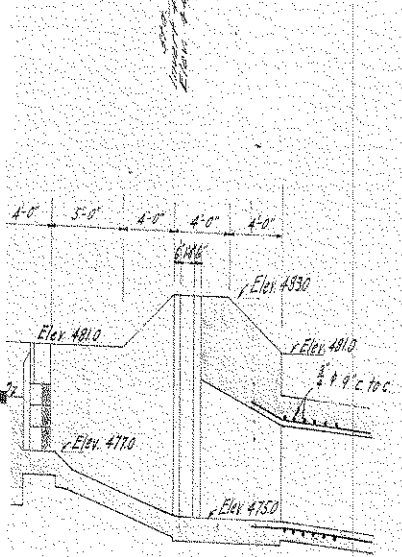
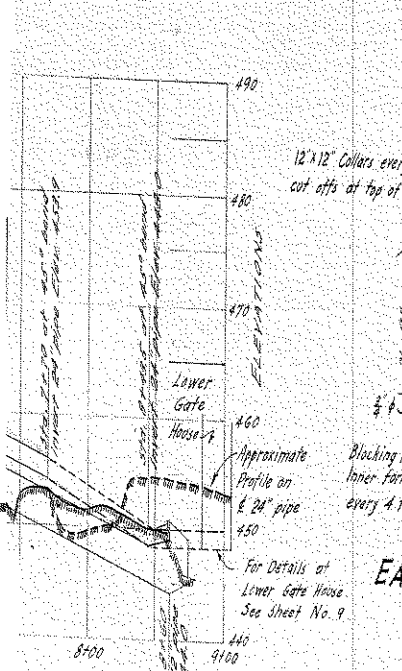
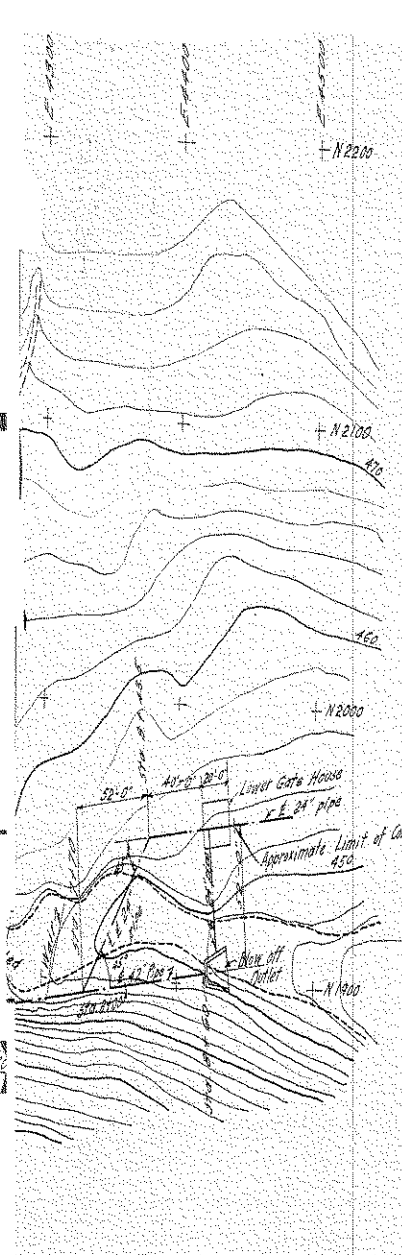
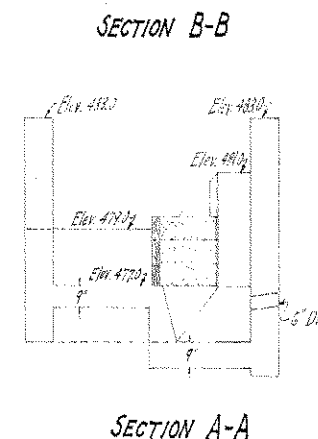
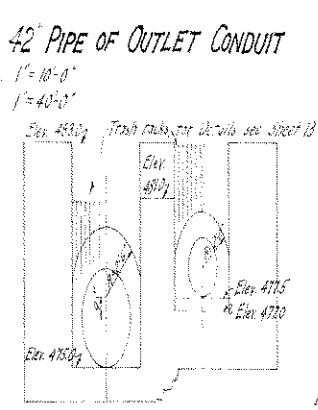
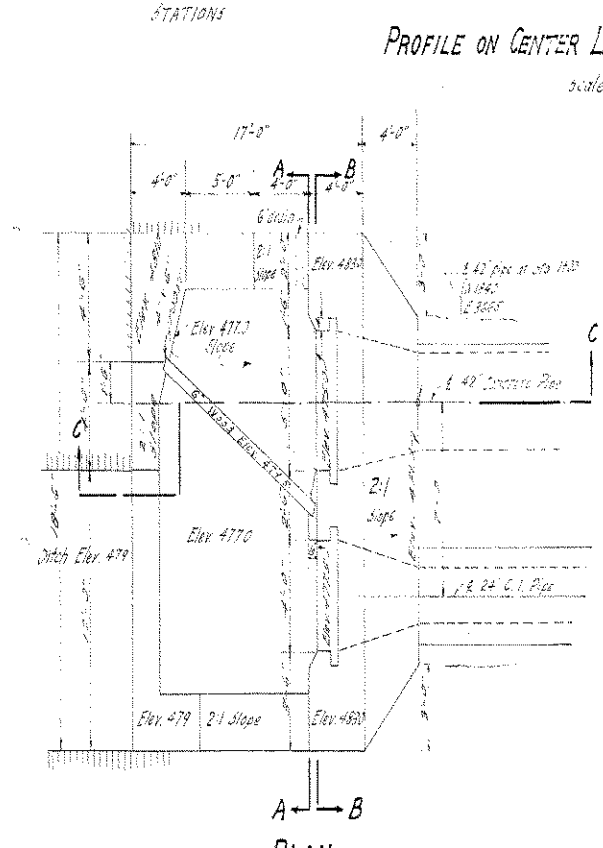
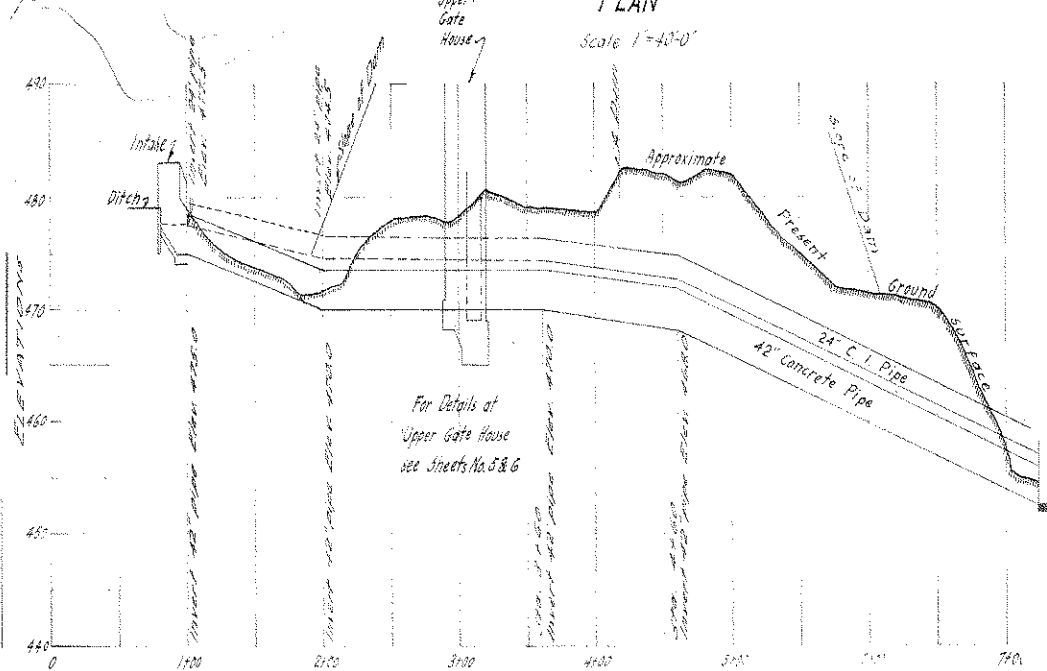
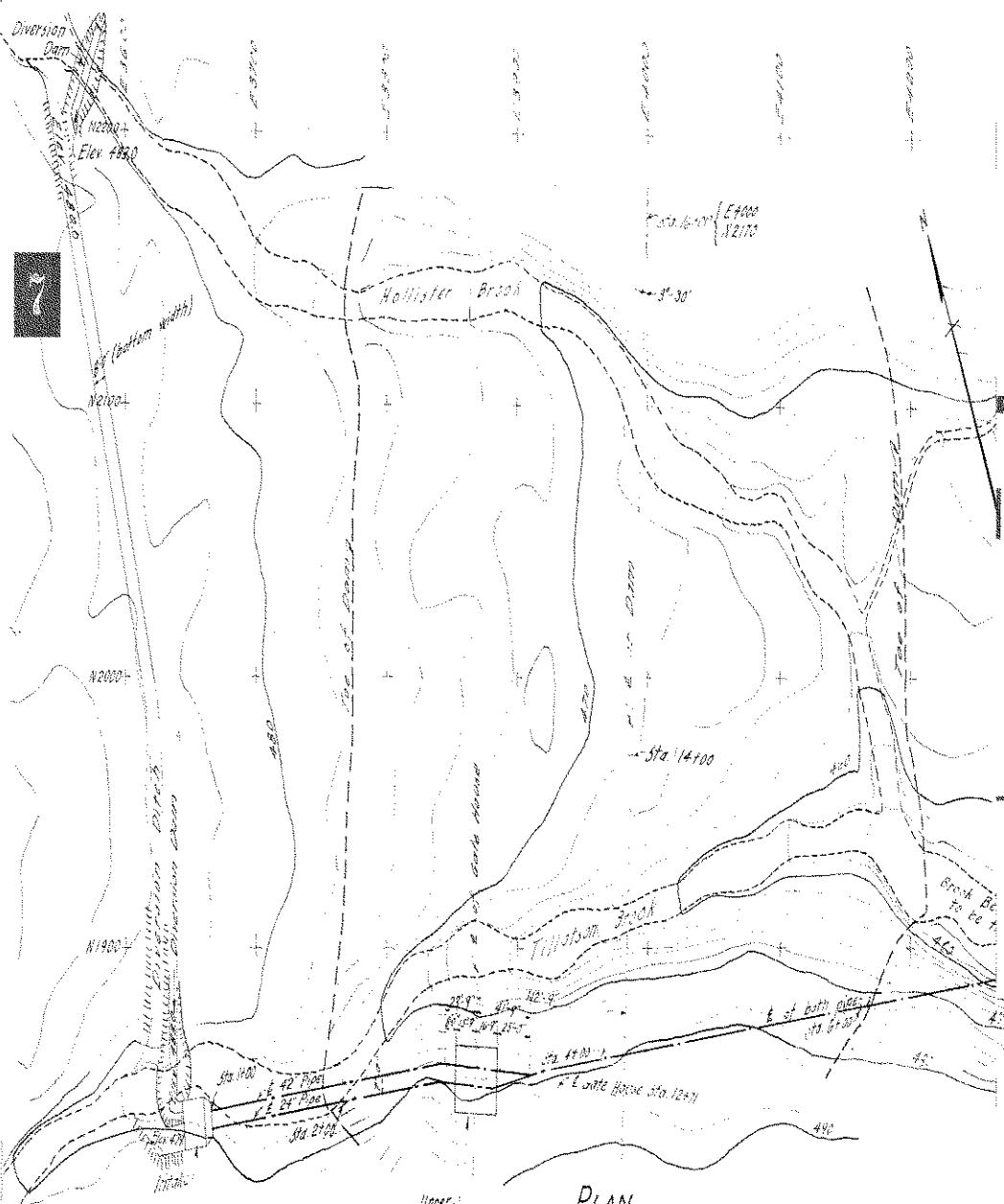
TYPICAL SECTIONS OF OUTLET CONDUIT
Scale 1/4" = 1'-0"

Notes.
The conduit is to rest on a solid foundation throughout its length. To accomplish this the invert may be lowered below the grades shown on the profile.
Approved lengths of the 42" concrete conduit are to be poured in one operation, with adjacent lengths thoroughly bonded together.

- LEGEND
- Concrete in section.
 - Timber in section.
 - Timber in elevation.
 - Rock in section.



CITY OF WESTFIELD, MASS. GRANVILLE STORAGE		BOARD OF PUBLIC WORKS WESTFIELD, MASS. WATER SUPPLY GRANVILLE STORAGE	
Chairman		OUTLET CONDUIT	
Supt.		Scales as noted December 1926	
		FAY, SPOFFORD & THORNDIKE, CONSULTING ENGINEERS, BOSTON	
		DES. H.J.W. DR. H.J.W. B.B.W.	TR. R.B.S. CHK. J.J. Williams
		APPROVED	FILE NO. Wg-1
		C.A. Farrell	PLAN NO. 37



Notes:
The conduit is to rest on a solid foundation throughout its length. To accomplish this the invert may be lowered below the grades shown on the profile.
Approved lengths of the 42" concrete conduit are to be poured in one operation with adjacent lengths thoroughly bonded together.

LEGEND

	Concrete in section.
	Timber in section.
	Timber in elevation.
	Rock in section.

CITY OF WESTFIELD, MASS. GRANVILLE STORAGE		BOARD OF PUBLIC WORKS WESTFIELD, MASS. WATER SUPPLY GRANVILLE STORAGE	
Chairman		Board of Public Works	
Supt.			
Scales as noted		December 1926	
FAY, SPENCER & THORNDIKE, CONSULTING ENGINEERS, BOSTON			
DES. H.J.W.	TR. R.B.S.	FILE NO.	Wg-1
DR. H.J.W. & B.W.	CHK. J. Williams	PLAN NO.	37
APPROVED C.A. Fawell			

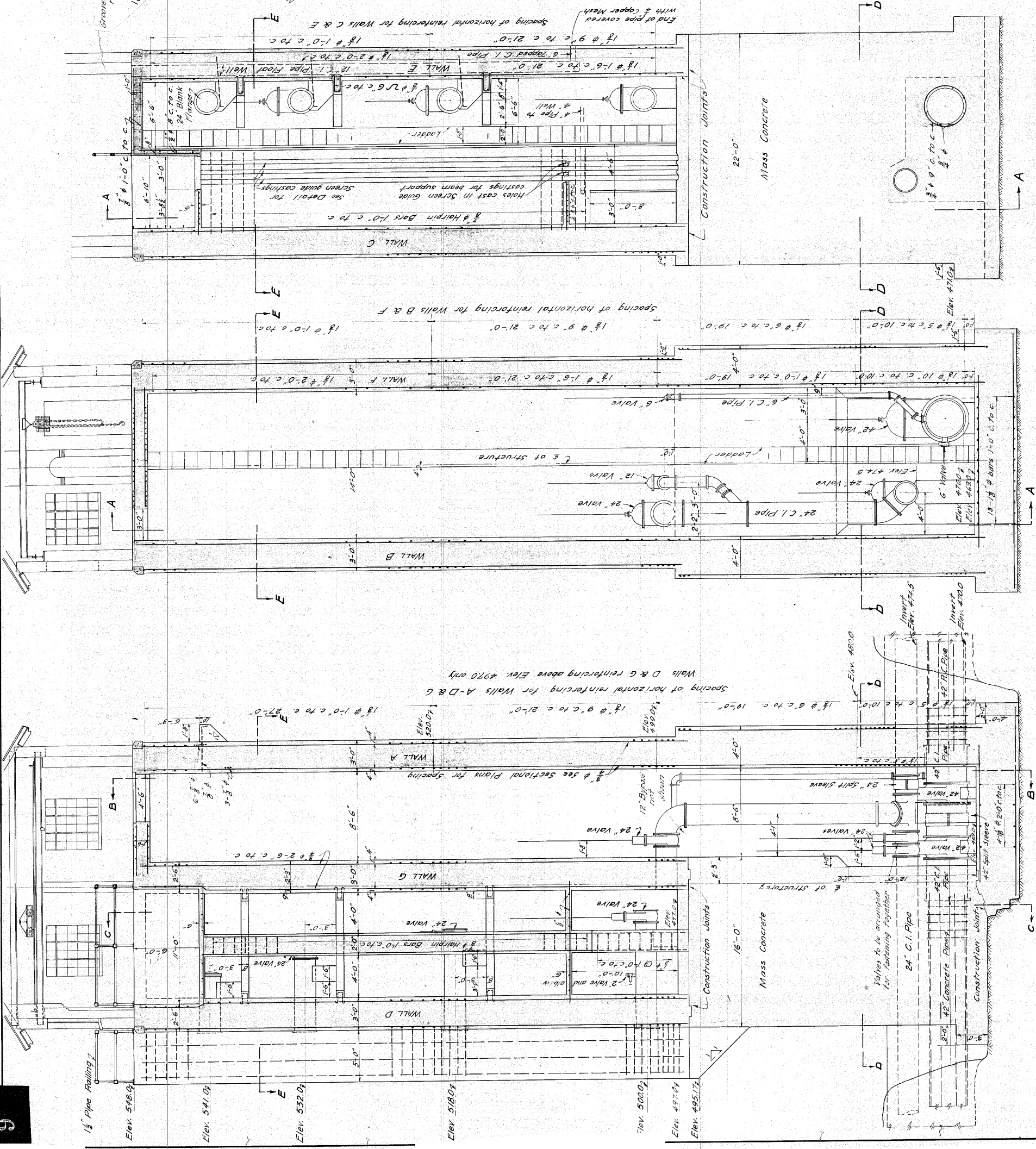
Plan Original Book and Page: ch17009

Name of specific Plan:

**Board of Public Works Westfield Mass Water Supply-Granville
Storage-Upper Gatehouse - vertical and horizontal sections**



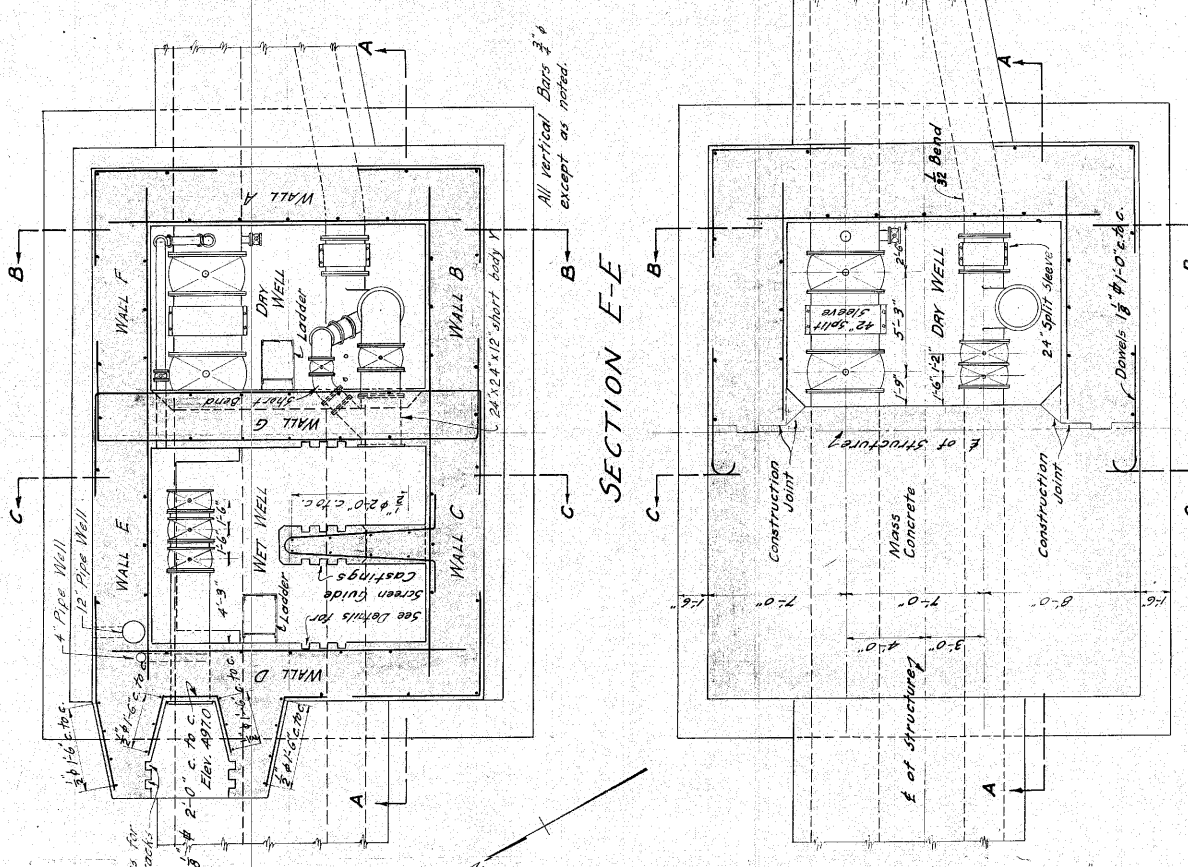
<u>Category</u>	<u>Index</u>
City/Town	Granville



SECTION A-A

SECTION B-B

SECTION C-C



SECTION D-D

LEGEND

 Concrete in section

 Precast concrete water table in section

Notes

All elevations refer to a base which is approximately Mean Sea Level.
All pipe 6" and larger, inside the Gate House, to be Class B Flanged.
All valves and C pipe to be furnished by the city and installed by the contractor.
Reinforcing rods should be bent to clear pipes where possible. In other cases they may be stopped at pipe with a tie bar across their ends.
For further details of Gate House see sheet's No 6 and No 7.
For details of screen guide coatings see sheet No 13.
For details of ladders and crane see sheet No 14.
For location of Upper Gate House see sheet No 4.

CITY OF WESTFIELD, MASS. GRANVILLE STORAGE	<p>Chairman</p> <p>Board of Public Works</p> <p>Supt.</p>
BOARD OF PUBLIC WORKS WESTFIELD, MASS. WATER SUPPLY GRANVILLE STORAGE	<p>Upper Gate House</p> <p>Vertical and Horizontal Sections</p>

Scale $\frac{1}{4} = 1'-0"$

December 1926

FAY, SPORFORD & THORNDIKE, CONSULTING ENGINEERS BOSTON

DES. E.M. B.B.W.	TR. H.A.K.	FILE
DR. H.L.K.	CHK. J. Williams	NO. Wg-1
APPROVED	PLAN NO. 30	

C. A. Farnell

CONTRACT DRAWINGS SHEET No. 5 OF 14

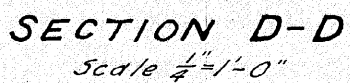
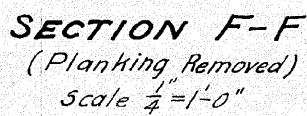
Plan Original Book and Page: ch17011

Name of specific Plan:

**Board of Public Works Westfield Mass Water Supply-Granville
Storage-Upper Gatehouse floor plans and details-temporary
layout**

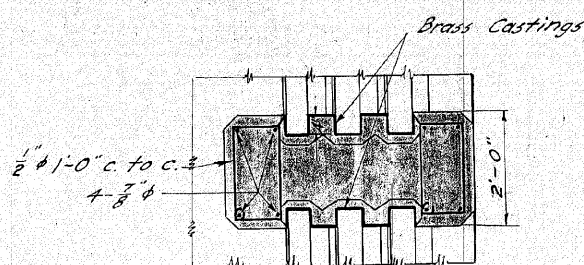
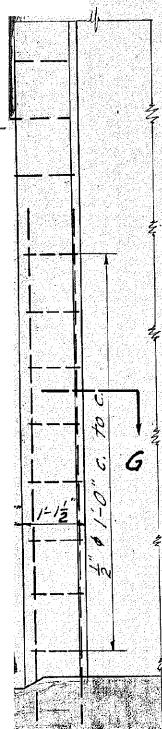
<u>Category</u>	<u>Index</u>
City/Town	Granville



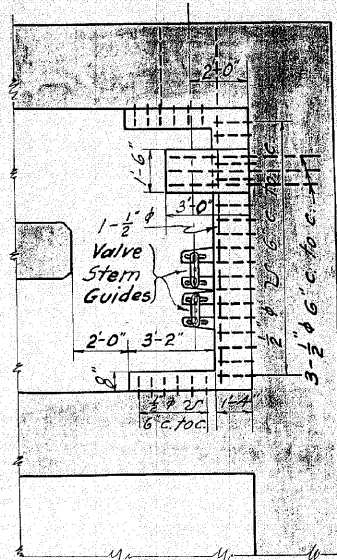
[illegible]

PIER BETWEEN
Scale $\frac{1}{2}'' = 1'-0''$



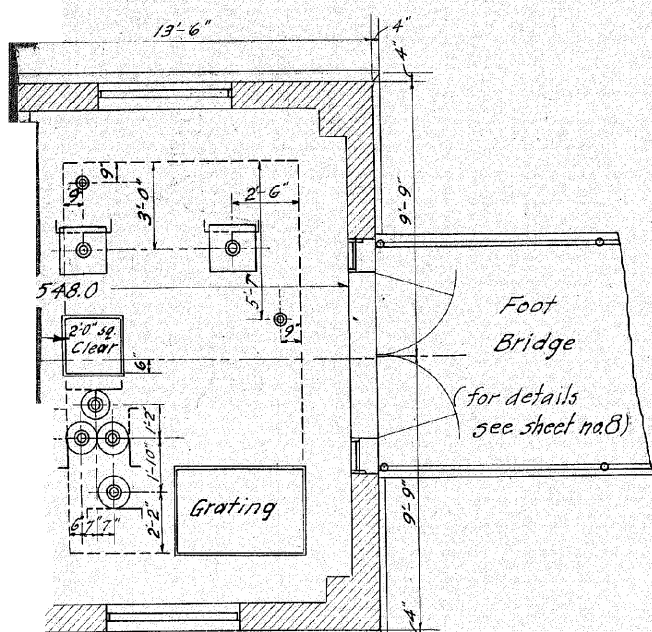


SECTION G-G
Scale $\frac{1}{2}''=1'-0''$



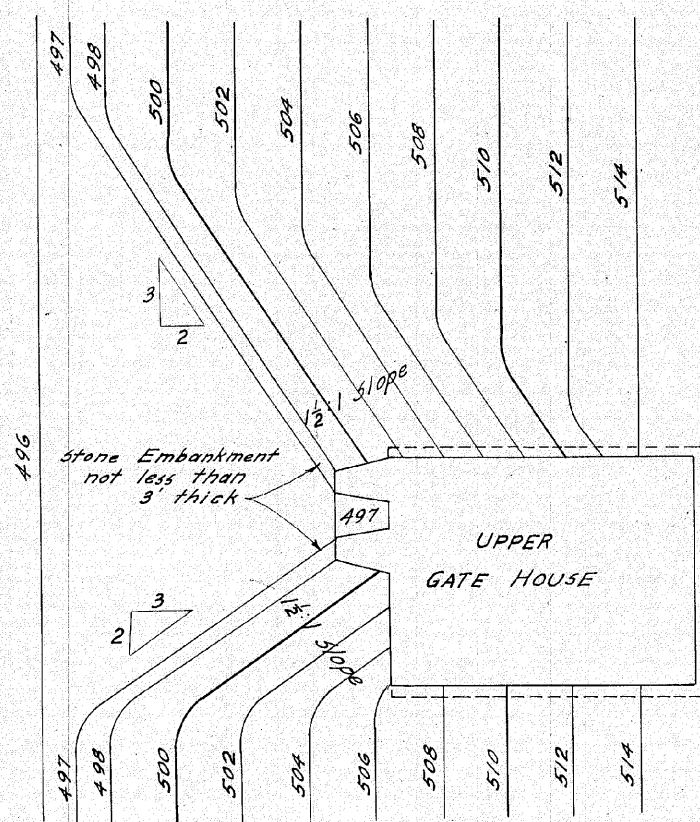
PLAN OF TYPICAL WALL
BRACKET IN WET WELL
Scale $\frac{1}{4}''=1'-0''$

CREENS

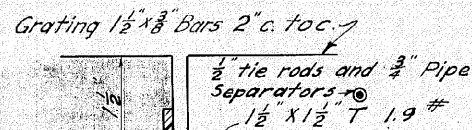


PLAN

$\frac{1}{4}''=1'-0''$

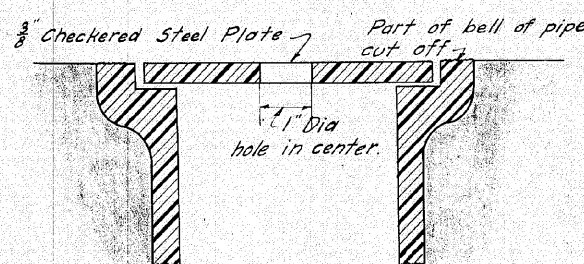


GRADING OF DAM
Scale $1''=10'-0''$



For Grating Details
see Sheet No. 13

DETAIL AT FLOOR GRATINGS
Half Size



DETAIL OF COVER FOR FLOAT WELLS
AND 6" VALVE STEM SLEEVES
Half Size

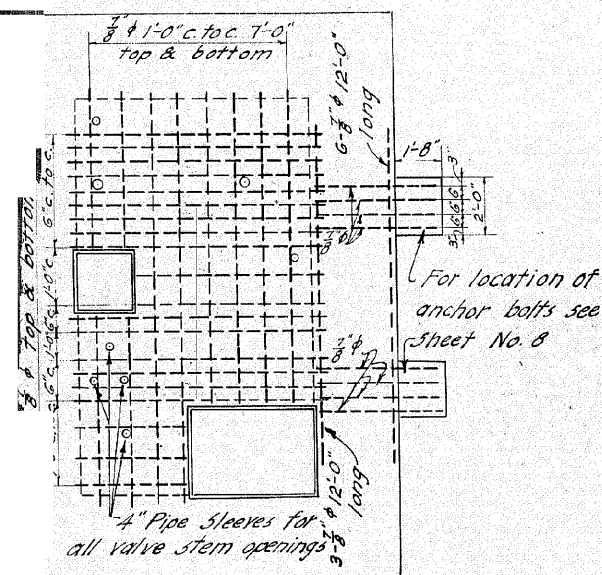
Required 3 Covers for 4" C. I. Pipe
Required 1 Cover for 12" C. I. Pipe

LEGEND

- Concrete in section
- Brick in section
- Cast Iron in section
- Structural steel in section.

Notes

All elevations refer to a base which is approximately Mean Sea Level.
All valve stands to be fastened to the concrete floor by suitable anchor bolts.
For further details of Upper Gate House see sheets No. 5 and No. 7.
For details of screen guide castings and floor gratings see sheet No. 13.
For details of ladder and temporary screen guides see sheet No. 14.



REINFORCING

$\frac{1}{4}''=1'-0''$

CITY OF WESTFIELD, MASS.
GRANVILLE STORAGE

Chairman } Board
of
Public
Works
Supt.

BOARD OF PUBLIC WORKS
WESTFIELD, MASS.
WATER SUPPLY GRANVILLE STORAGE

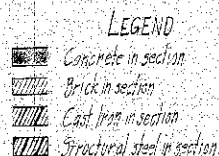
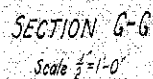
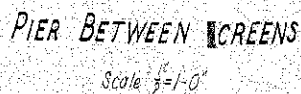
UPPER GATE HOUSE
FLOOR PLANS AND DETAILS
TEMPORARY LAYOUT

Scales as noted. December 1926

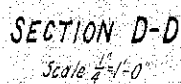
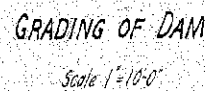
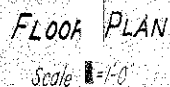
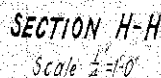
FAY, SPOFFORD & THORNDIKE, CONSULTING ENGINEERS, BOSTON

DES. E.M., B.B.W. TR. H.L.K. FILE Wg-1
DR. H.L.K. CHK. J.J. Williams NO.
APPROVED C. A. Jewell PLAN NO. 39

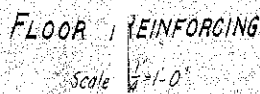
CONTRACT DRAWINGS SHEET No 6 OF 14



All elevations refer to a base which is approximately Mean Sea Level.
All valve stands to be fastened to the concrete floor by suitable anchor bolts.
For further details of Upper Gate House see sheets No. 5 and No. 7.
For details of screen guide castings and floor gratings see sheet No. 13.
For details of ladder and temporary screen guides see sheet No. 14.



Note: The above sections show the temporary layout during construction.



CITY OF WESTFIELD, MASS.
GRANVILLE STORAGE

_____ Chairman _____ Board
_____ of
_____ Public
_____ Works
_____ Dept.

BOARD OF PUBLIC WORKS
WESTFIELD, MASS.
WATER SUPPLY GRANVILLE STORAGE

UPPER GATE HOUSE
FLOOR PLANS AND DETAILS
TEMPORARY LAYOUT

Success as noted. December, 1928

FAY, STAFFORD & PARSONS, CONSULTING ENGINEERS, BOSTON

DESIGNED BY DR. H. L. K.	TR. H. L. K. CHK. J. J. Williams	FILE NO. Wg-1
APPROVED C. A. Fawcett	PLAN NO.	39

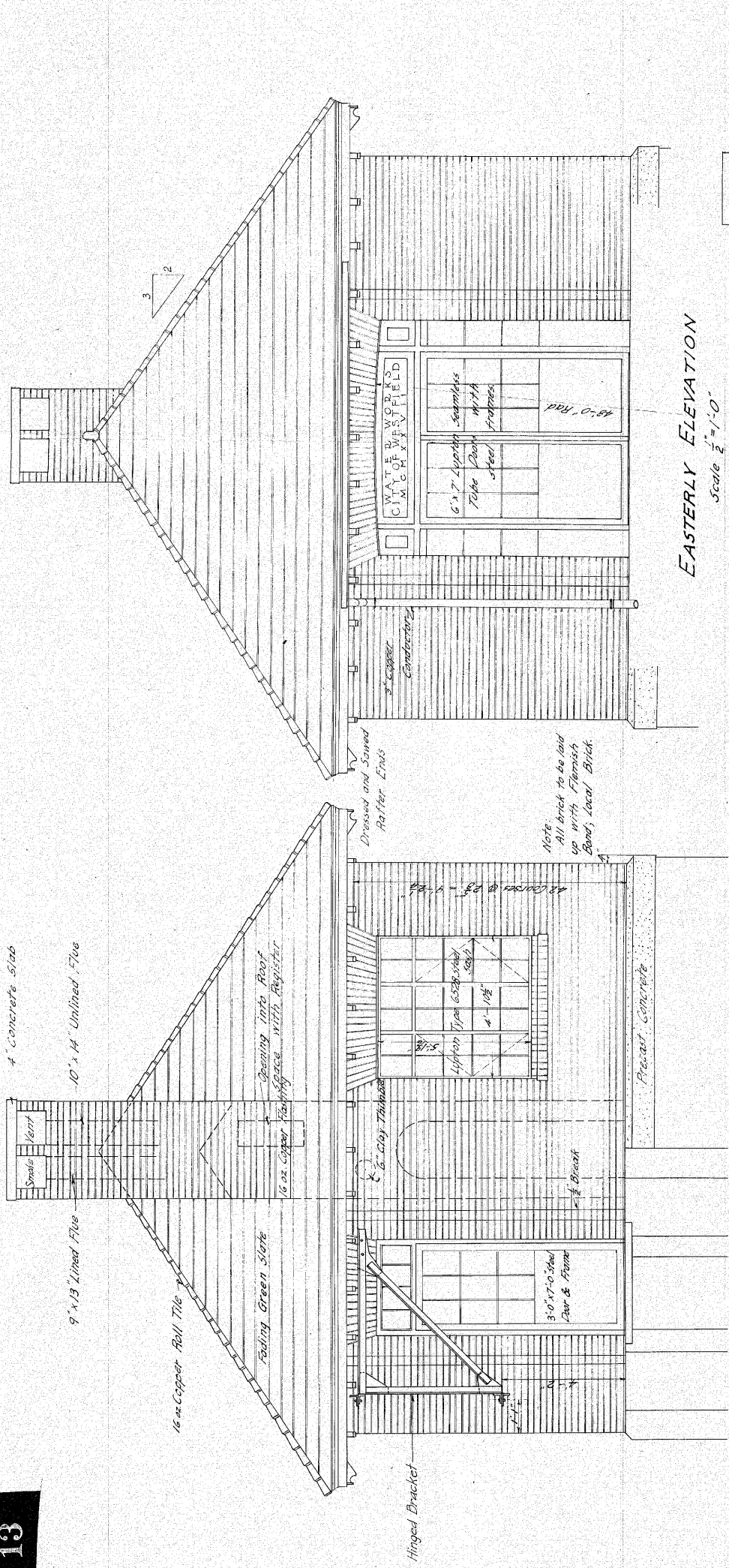
Plan Original Book and Page: ch17013

Name of specific Plan:

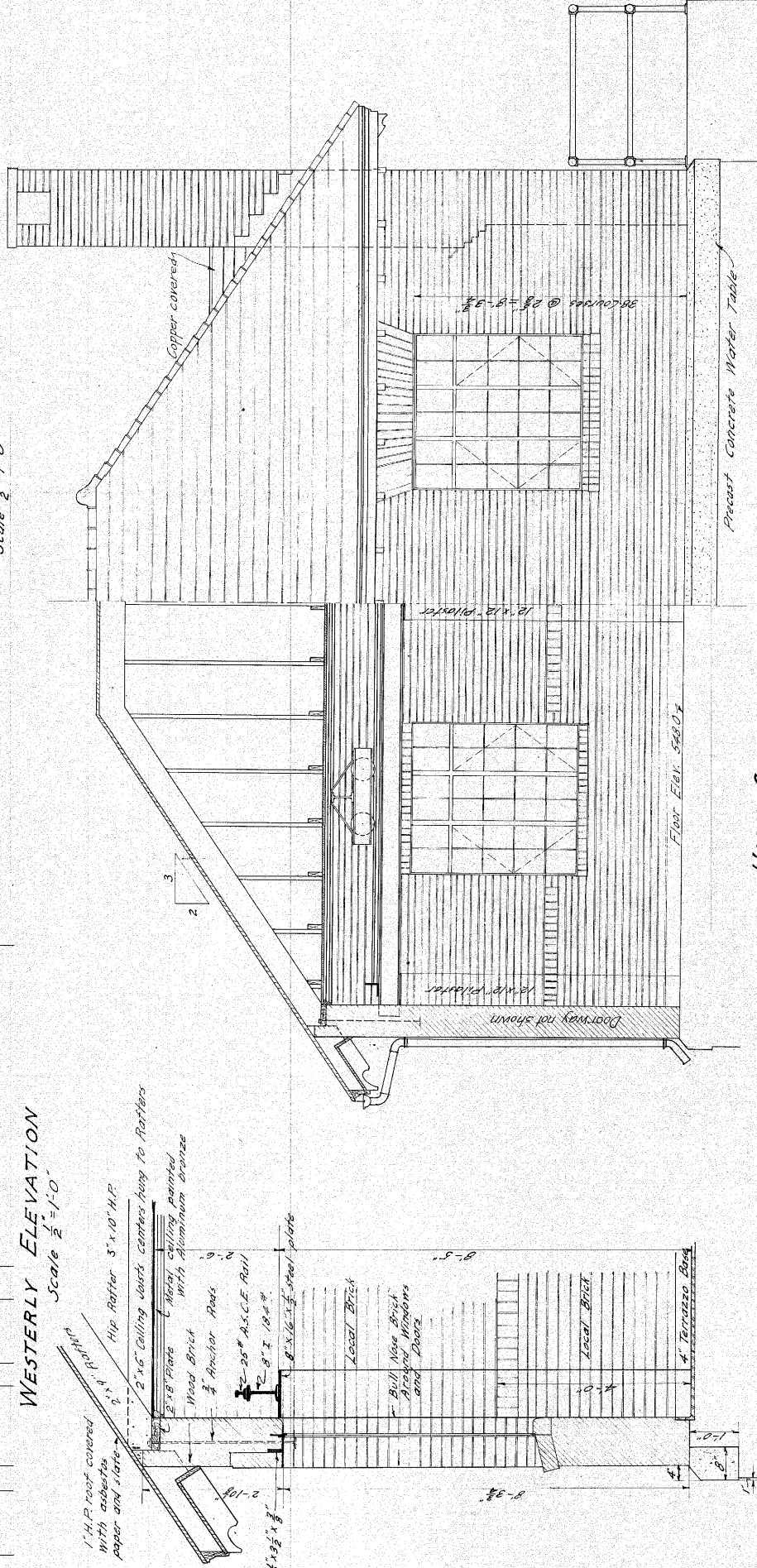
**Board of Public Works Westfield Mass Water Supply-Granville
Storage-Superstructure of Upper Gatehouse**



<u>Category</u>	<u>Index</u>
City/Town	Granville



WESTERLY ELEVATION
Scale $\frac{1"}{2} = 1'-0"$



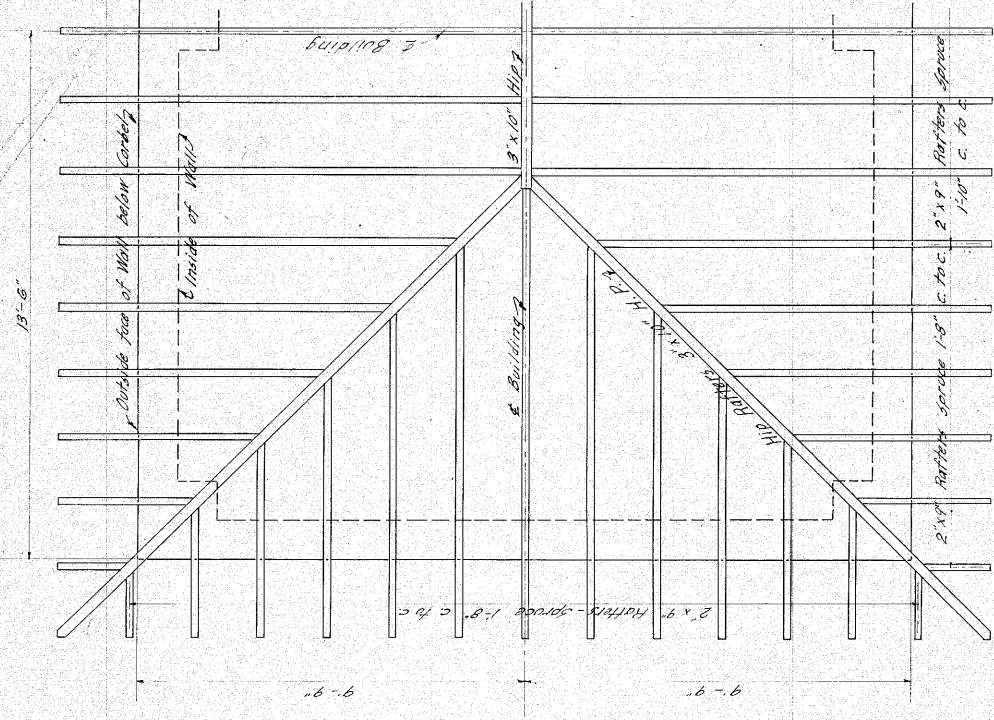
WALL SECTION
Scale $\frac{3}{4}'' = 1'-0''$

HALF SECTION

Note: Gate stands etc. not shown

HALF NORTHERLY ELEVATION

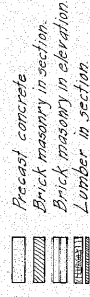
Scale $\frac{1''}{2} = 1'-0''$
(Southerly Elevation similar)



HALF ROOF FRAMING PLAN
Scale $\frac{1}{2}'' = 1'-0''$

Notes
All elevations refer to a base which is approximately Mean Sea Level.
For details of the Upper Gate House substructure see sheets No.5 and No.6.
For details of crane and hinged bracket see sheet No.14.

LEGEND



CITY OF WESTFIELD, MASS
GRANVILLE STORAGE

Board
of
Public
Works

BOARD OF PUBLIC WORKS
WESTFIELD, MASS.
WATER SUPPLY GRANVILLE STORAGE

SUPERSTRUCTURE OF UPPER GATE HOUSE

Scales as noted		December 1926	
FAY, SPOFFORD & THORNDIKE, CONSULTING ENGINEERS, BOSTON			
DES. E. E. H.	TR. H. L. K.	FILE NO.	Wg-1
DR. E. E. H.	CHK. <i>H. Williams</i>	PLAN NO.	40
APPROVED	<i>H. Williams</i>		

CONTRACT DRAWINGS SHEET No. 7 OF 14

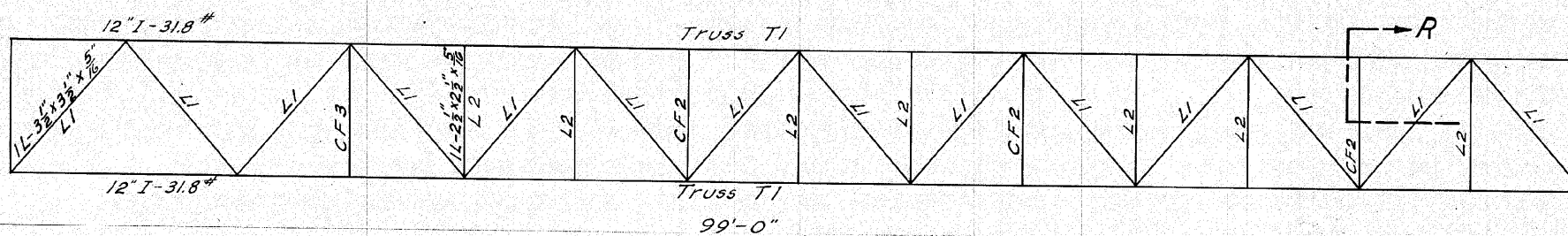
Plan Original Book and Page: ch17015

Name of specific Plan:

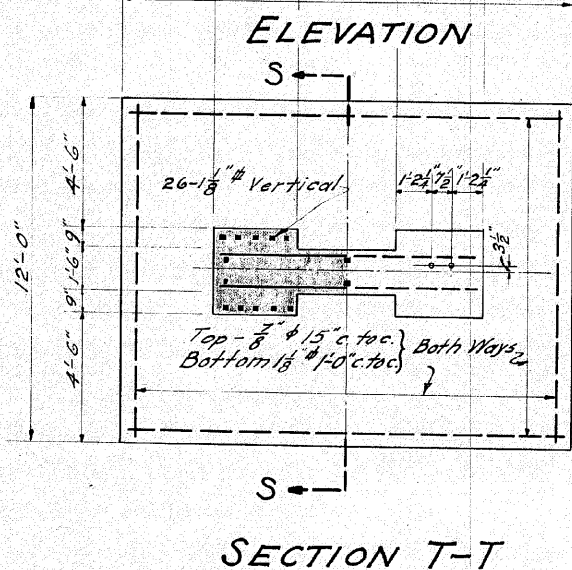
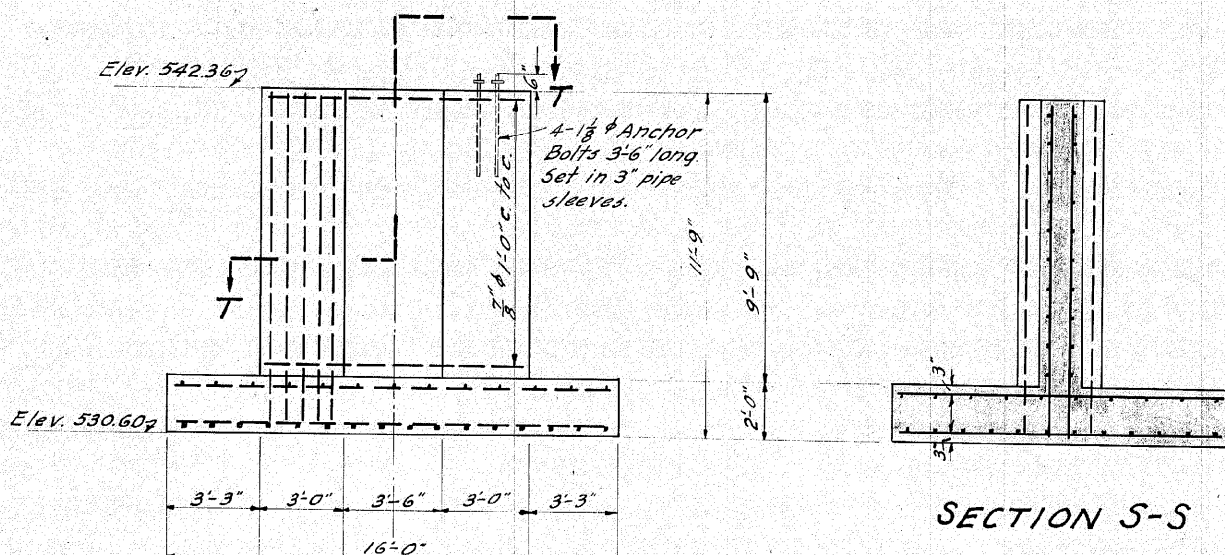
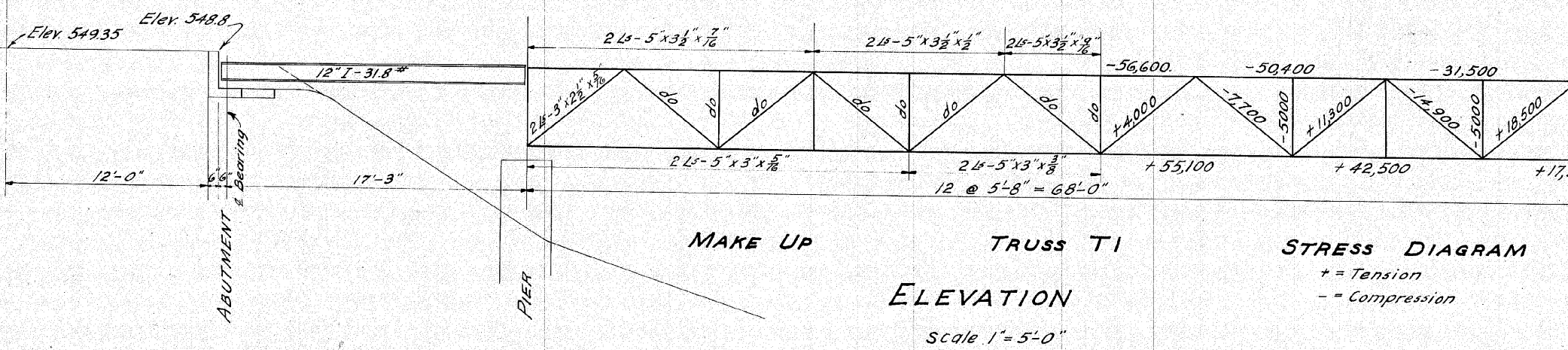
**Board of Public Works Westfield Mass Water Supply-Granville
Storage-Foot Bridge to upper Gatehouse**



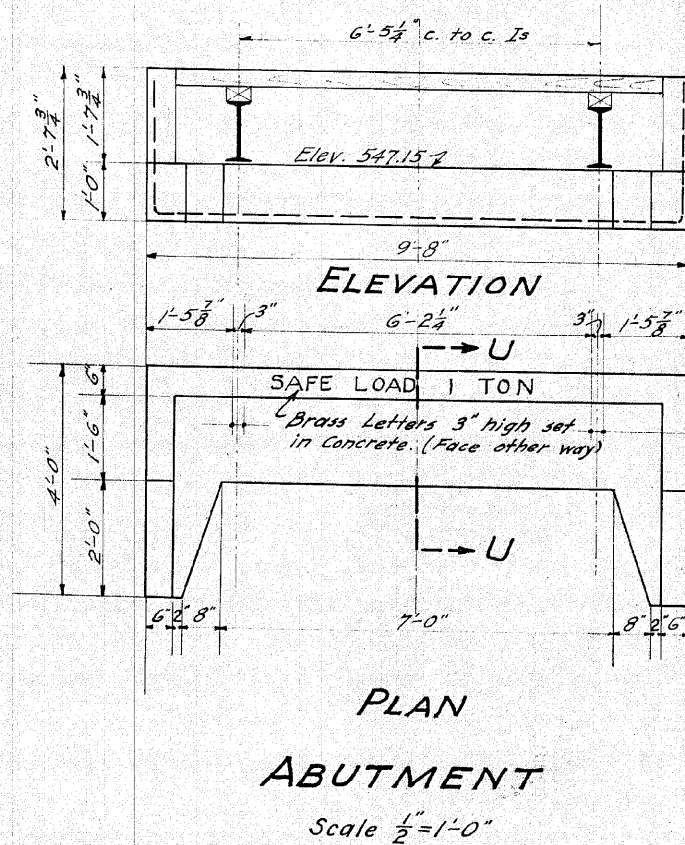
<u>Category</u>	<u>Index</u>
Bridges	Foot Bridge to Upper Gatehou
City/Town	Granville

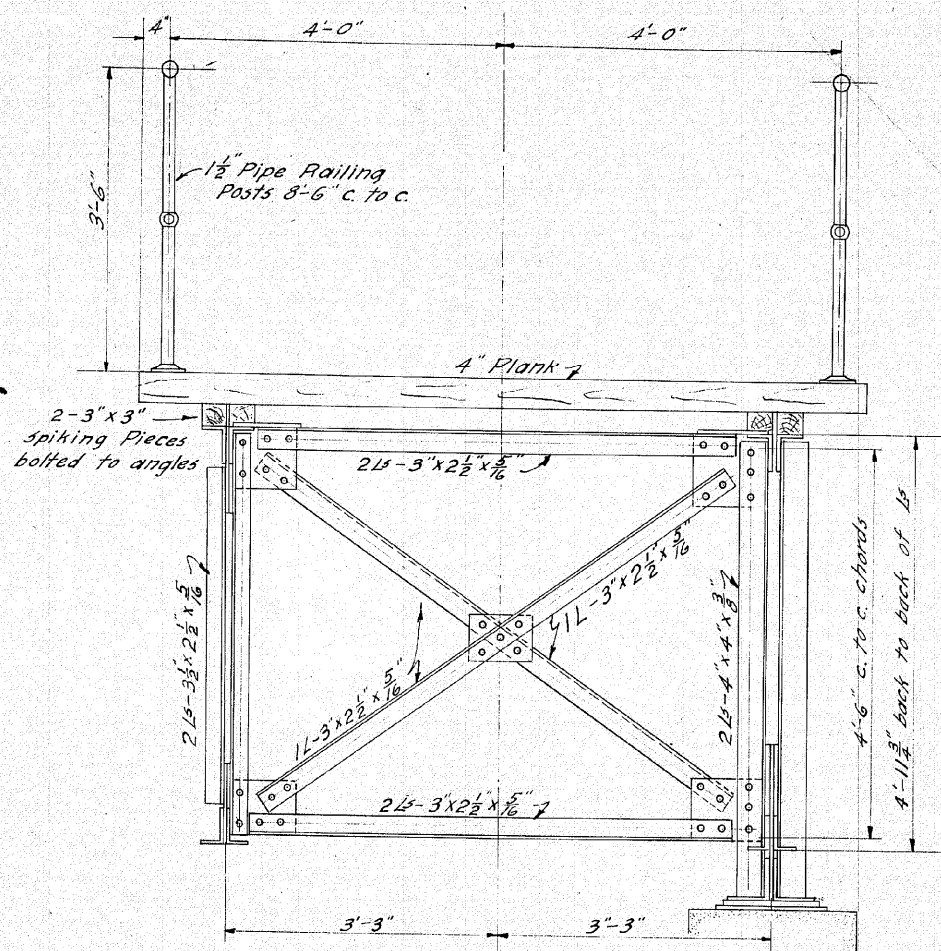
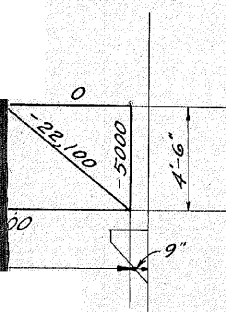


PLAN
TOP CHORD BRACING

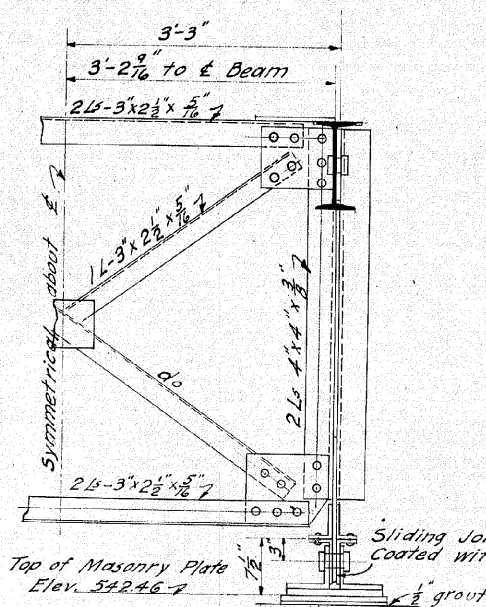


PIER
Scale 1/4" = 1'-0"

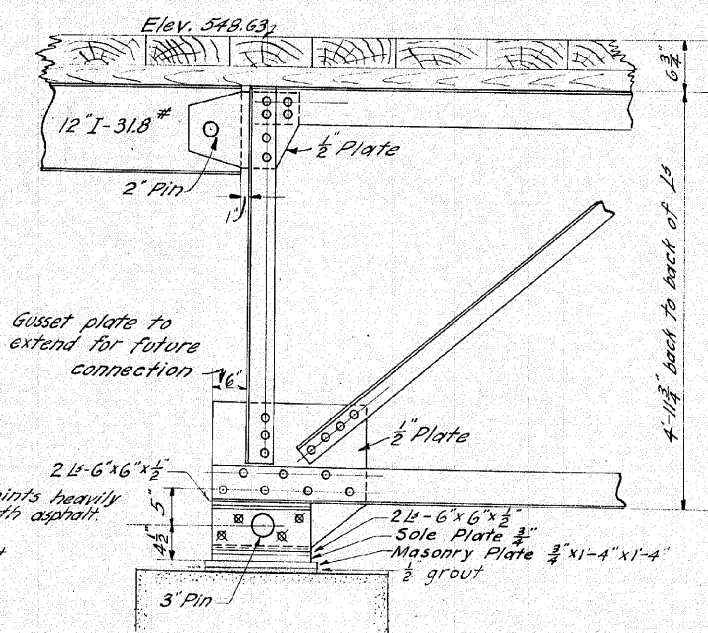




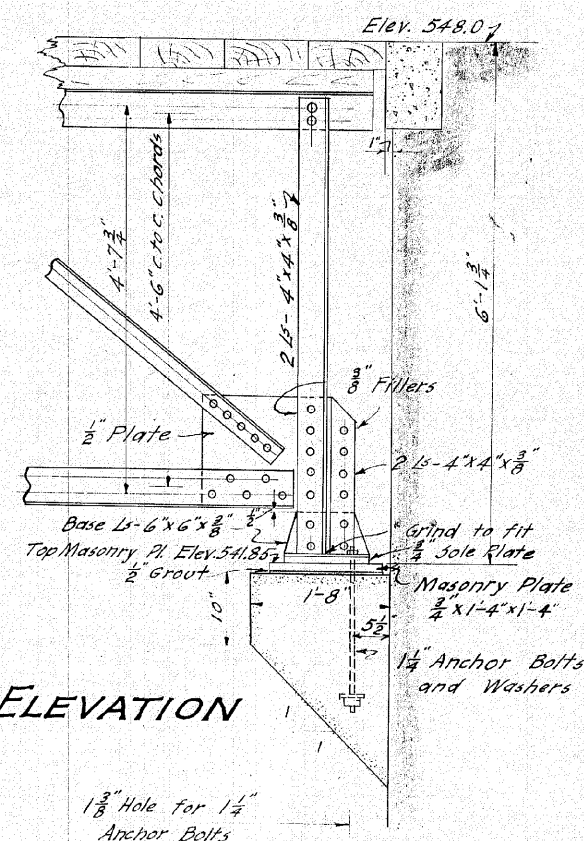
HALF CF2 HALF CFI
SECTION R-R
Scale $\frac{3}{4} = 1'-0"$



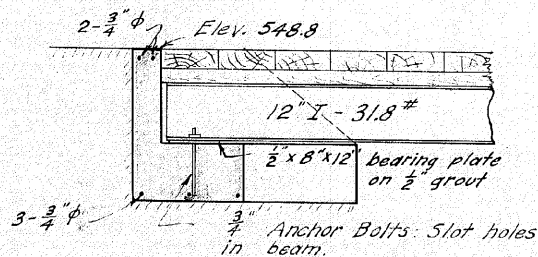
HALF END VIEW CF3
Scale $\frac{3}{4} = 1'-0"$



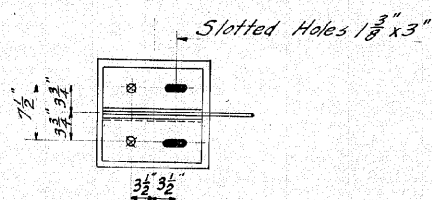
ELEVATION



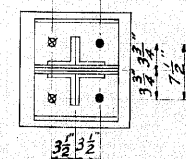
ELEVATION



SECTION U-U



PLAN
DETAIL OF TRUSS BEARING
AT PIER
Scale $\frac{3}{4}'' = 1'-0''$








PLAN
DETAIL OF TRUSS BEARING
AT GATEHOUSE
Scale $\frac{3}{4}$ "=1'-0"

Notes

All elevations refer to a base which is approximately Mean Sea Level.
For section of crest of Dam at the Foot Bridge see sheet No. 3.
For further details of Bridge Support at Gate House see sheet No. 6.
Steelwork shall be given one shop coat and, after erection two finish coats of approved paint.

LEGEND

	Concrete in section.
	Concrete in elevation.
	Precast concrete in section.
	Timber in section.
	Timber in elevation.

CITY OF WESTFIELD, MASS.
GRANVILLE STORAGE

-----	} Board of Public Works
Chairman	

-----	} Supt.

BOARD OF PUBLIC WORKS WESTFIELD, MASS. WATER SUPPLY GRANVILLE STORAGE	
---	--

FOOT BRIDGE TO UPPER GATE HOUSE	
--	--

Scales as noted

December 1926

FAY, SPOFFORD & THORNDIKE, CONSULTING ENGINEERS, BOSTON

DES. **B.W.**; E.M.
 DR. **B.W.**

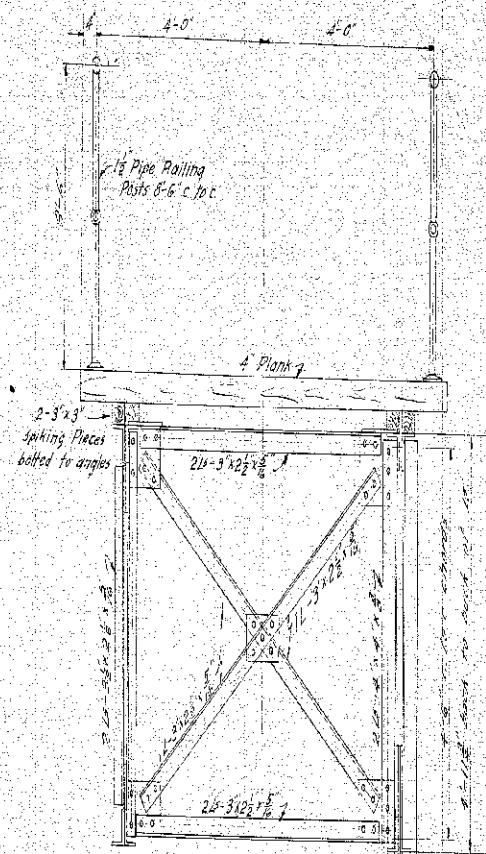
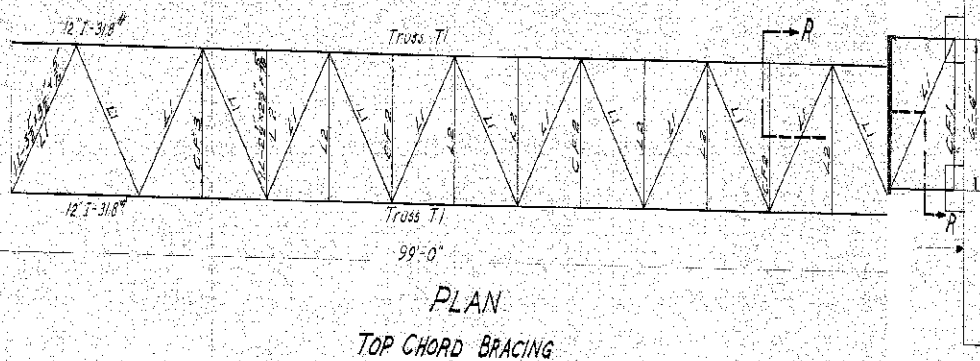
TR. **B.W.**
 CHK. *H. J. Williams*

FILE NO. **Wg-1**

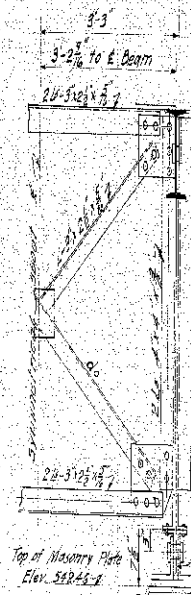
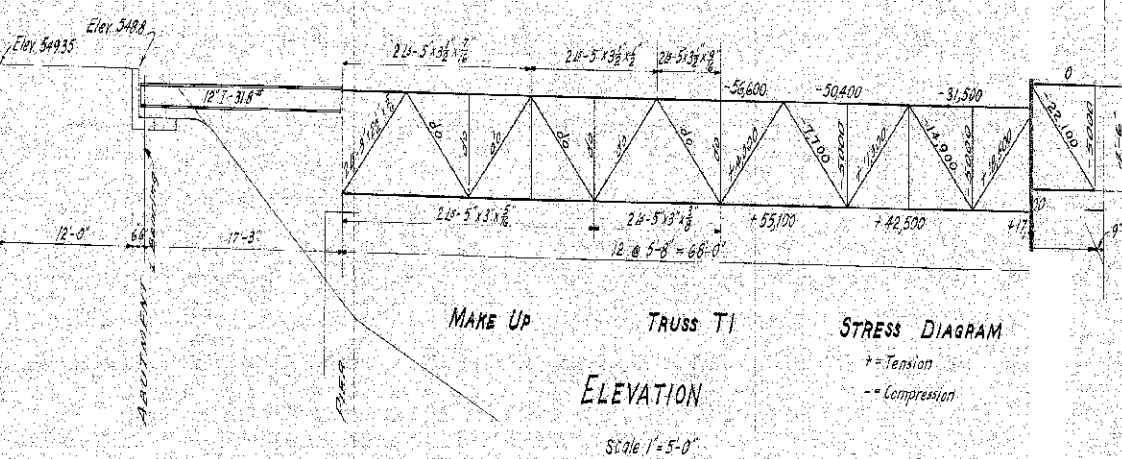
APPROVED

E. A. Sawell

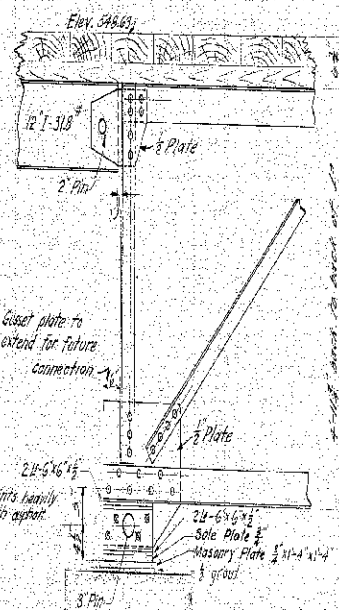
PLAN NO. **41**



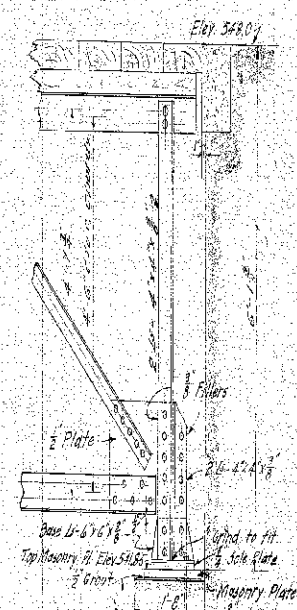
HALF CF2 HALF CF1
SECTION R-R
Scale $\frac{3}{4}''=1'-0''$



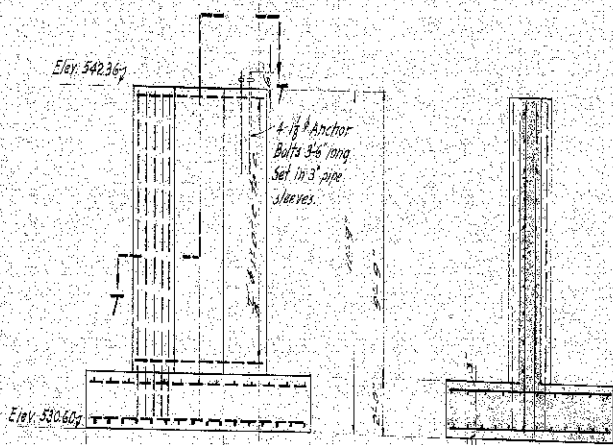
HALF END VIEW CF3
Scale $\frac{3}{4}''=1'-0''$



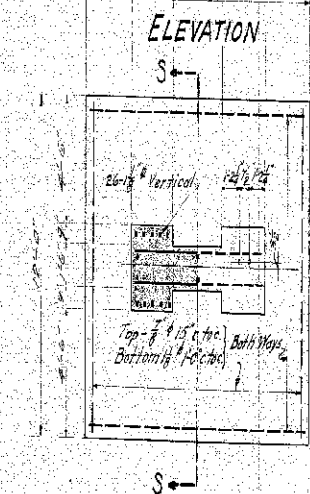
ELEVATION



ELEVATION

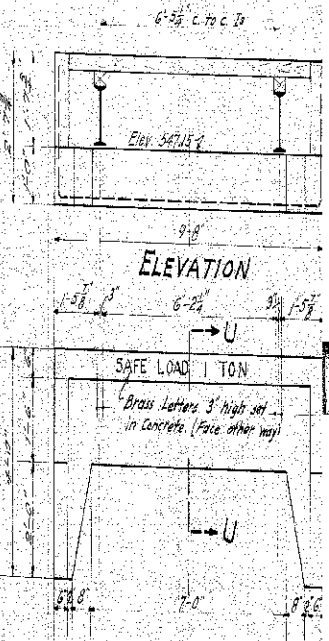


SECTION S-S

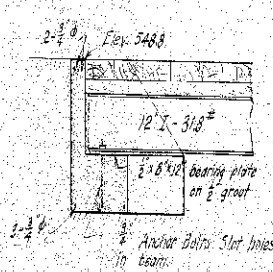


SECTION T-T

PIER
Scale $\frac{1}{4}''=1'-0''$



PLAN
ABUTMENT
Scale $\frac{1}{4}''=1'-0''$



SECTION U-U

PLAN
DETAIL OF TRUSS BEARING
AT PIER
Scale $\frac{3}{4}''=1'-0''$

PLAN
DETAIL OF TRUSS BEARING
AT GATEHOUSE
Scale $\frac{3}{4}''=1'-0''$

Notes
All elevations refer to a base which is approximately Mean Sea Level.
For section of crest of Dam at the Foot Bridge see sheet No. 3.
For further details of Bridge Support at Gate House see sheet No. 6.
Steelwork shall be given one shop coat and after erection two finish coats of approved paint.

- LEGEND
- Concrete in section.
 - Concrete in elevation.
 - Precast concrete in section.
 - Timber in section.
 - Timber in elevation.

CITY OF WESTFIELD, MASS. GRAVILLI STORAGE	
Chairman	Board of Public Works
Supt.	

BOARD OF PUBLIC WORKS WESTFIELD, MASS. WATER SUPPLY GRAVILLI STORAGE	
FOOT BRIDGE TO UPPER GATE HOUSE	
Scales as noted December 1926	
FAY, SPENCER & THORNDIKE, CONSULTING ENGINEERS, BOSTON	
DES. B.W.E.M. DR. B.W.E.M.	TR. B.W.E.M. CHK. H. Williams
APPROVED C. A. Sawell	FILE NO. Wg-1 PLAN NO. 41

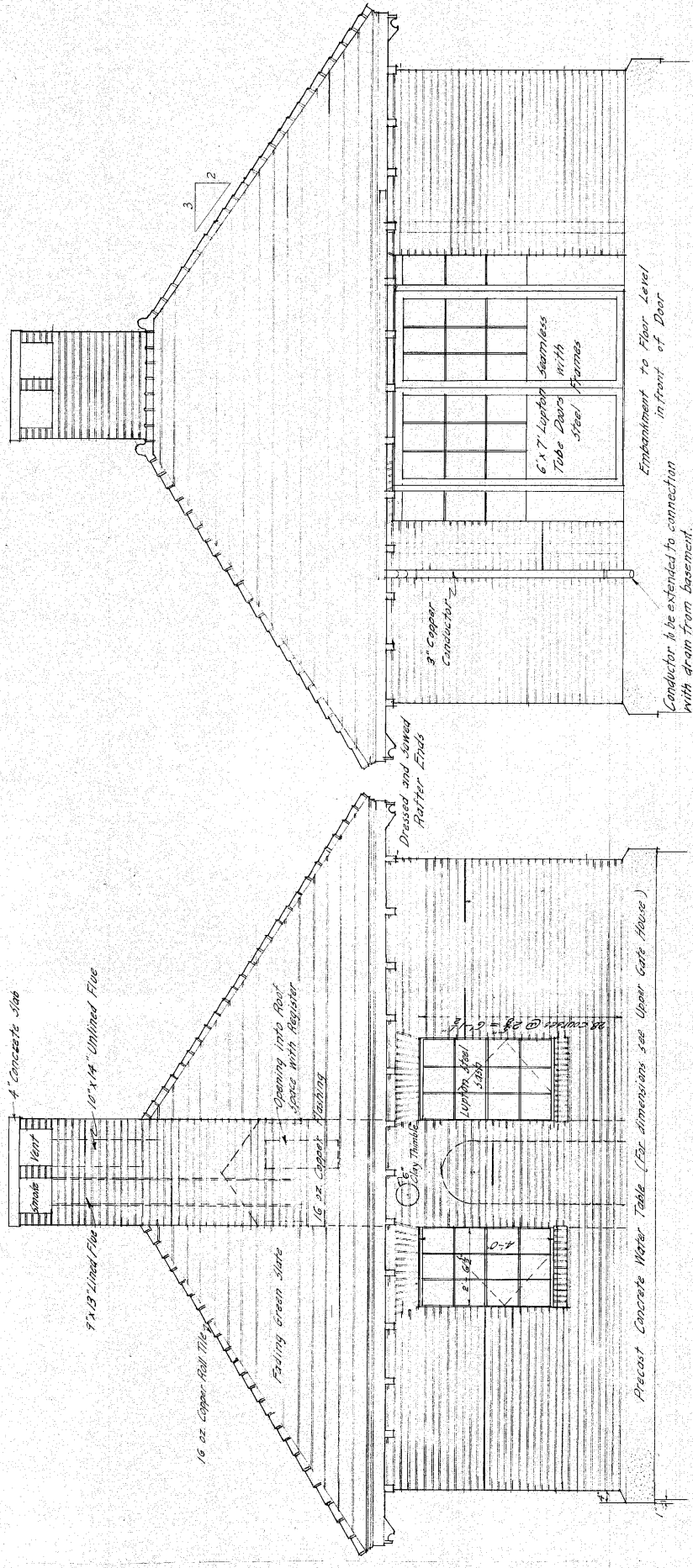
Plan Original Book and Page: ch17017

Name of specific Plan:

**Board of Public Works Westfield Mass Water Supply-Granville
Storage-Lower Gate House foundation and superstructure**

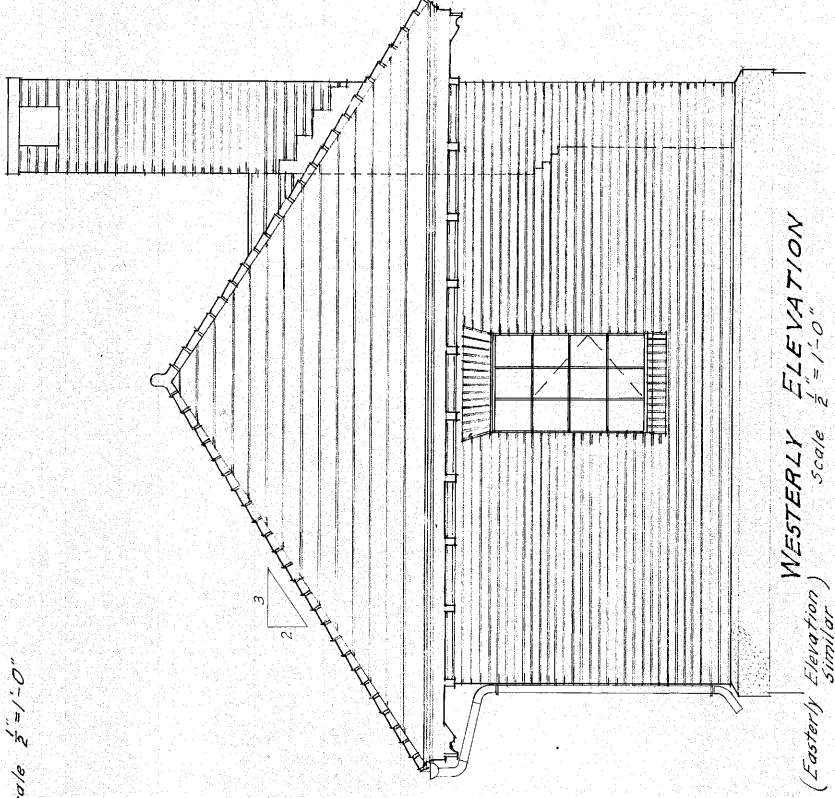


<u>Category</u>	<u>Index</u>
City/Town	Granville



NORTHERLY ELEVATION
Scale $\frac{1}{2}'' = 1'-0''$

SOUTHERLY ELEVATION
Scale $\frac{1}{2}'' = 1'-0''$



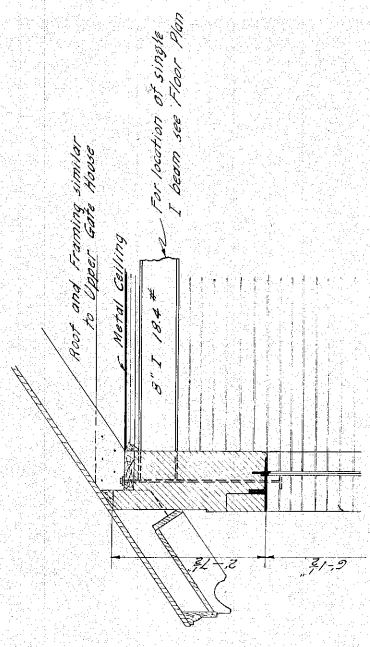
WESTERLY ELEVATION
Scale $\frac{1}{2}'' = 1'-0''$
(Easterly Elevation) similar

Notes:
All elevations refer to a base which is approximately Mean Sea Level.
For location of Lower Gate House, see sheet No. 4.
The length and location of the G drain from the basement is to be determined during construction.

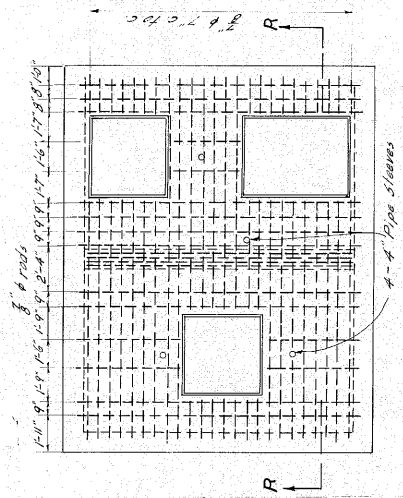
LEGEND

- Precast concrete
- Brick masonry in section
- Brick masonry in elevation
- Lumber in section

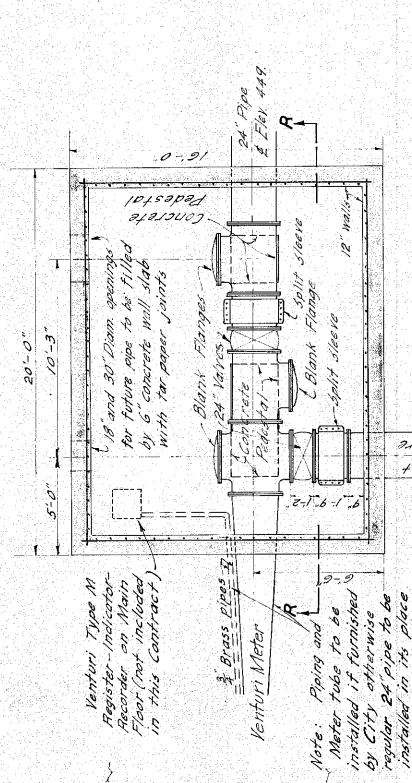
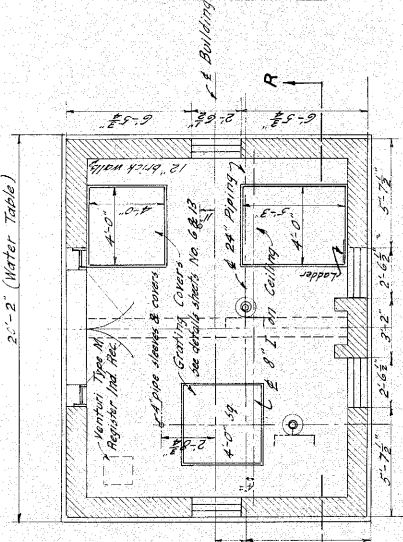
FRAMING DETAIL
Scale $\frac{3}{4}'' = 1'-0''$



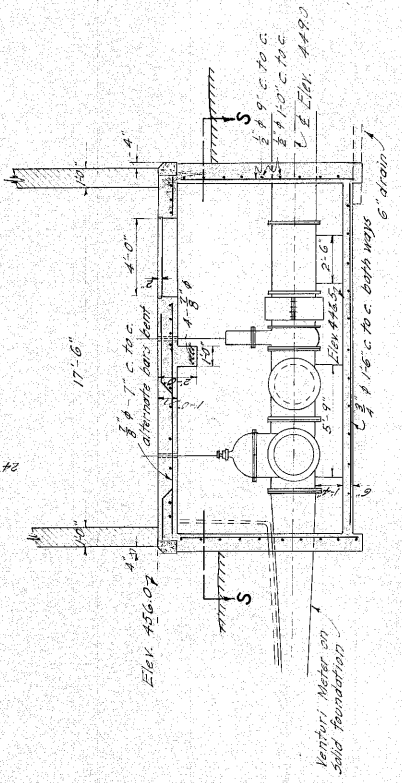
PLAN OF FLOOR REINFORCING
Scale $\frac{1}{4}'' = 1'-0''$



FLOOR PLAN
Scale $\frac{1}{4}'' = 1'-0''$



SECTION S-S
PIPING LAYOUT
Scale $\frac{1}{4}'' = 1'-0''$



SECTION R-R
Scale $\frac{1}{4}'' = 1'-0''$

Plan Original Book and Page: ch17019

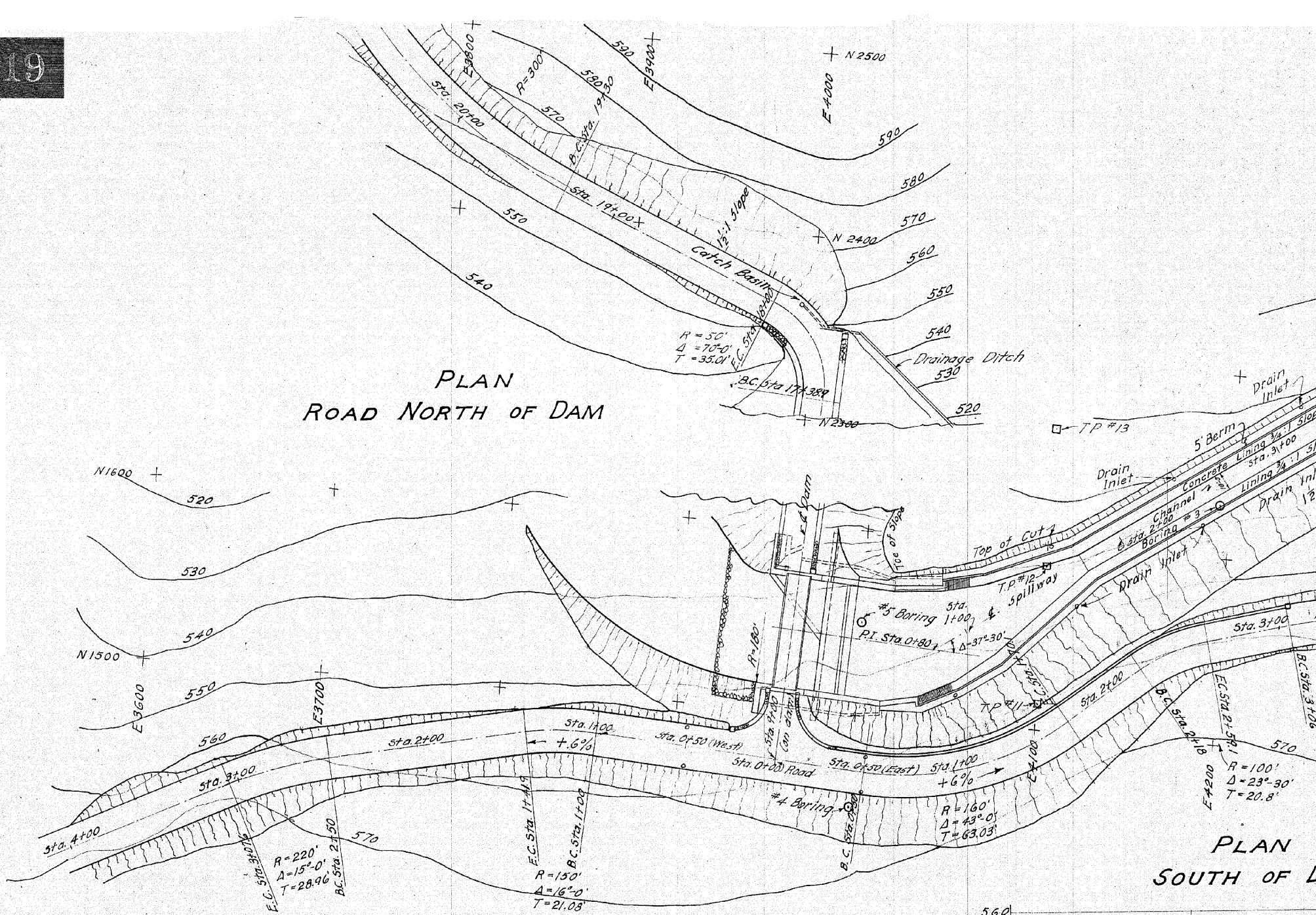
Name of specific Plan:

**Board of Public Works Westfield Mass Water Supply-Granville
Storage-Spillway Channel & Roads - Plan & Profiles**

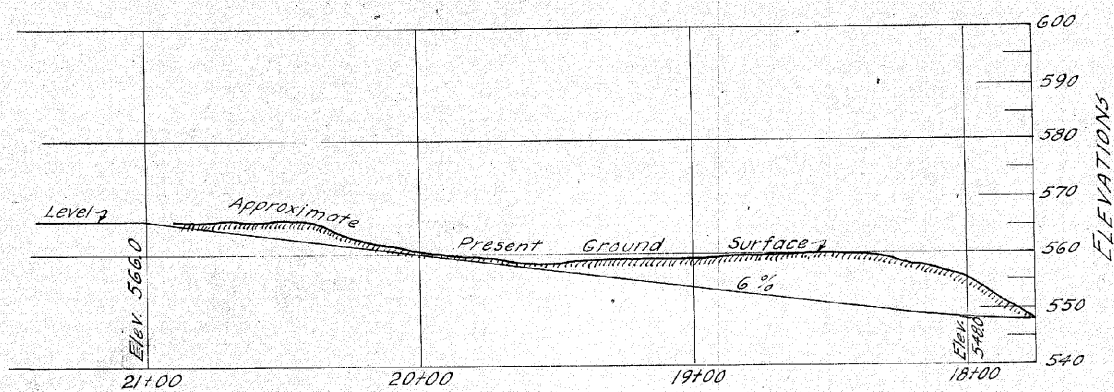


<u>Category</u>	<u>Index</u>
City/Town	Granville

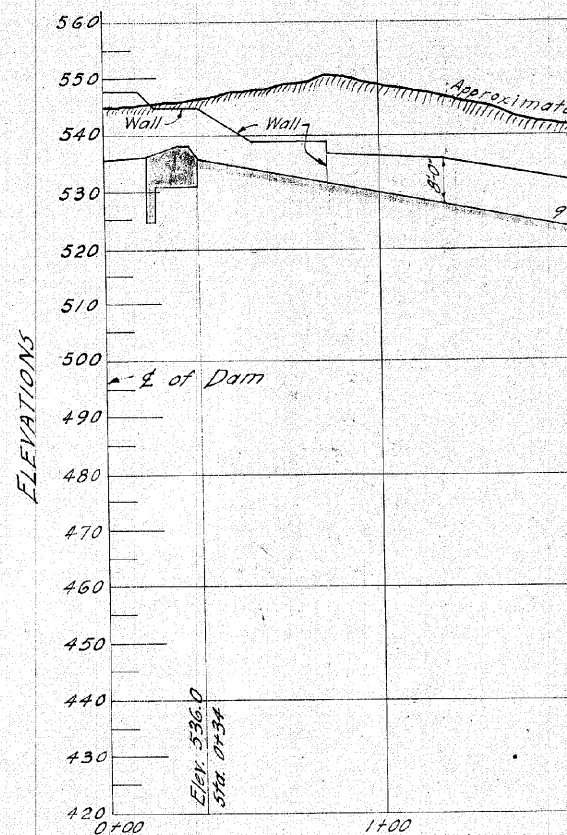
PLAN
ROAD NORTH OF DAM



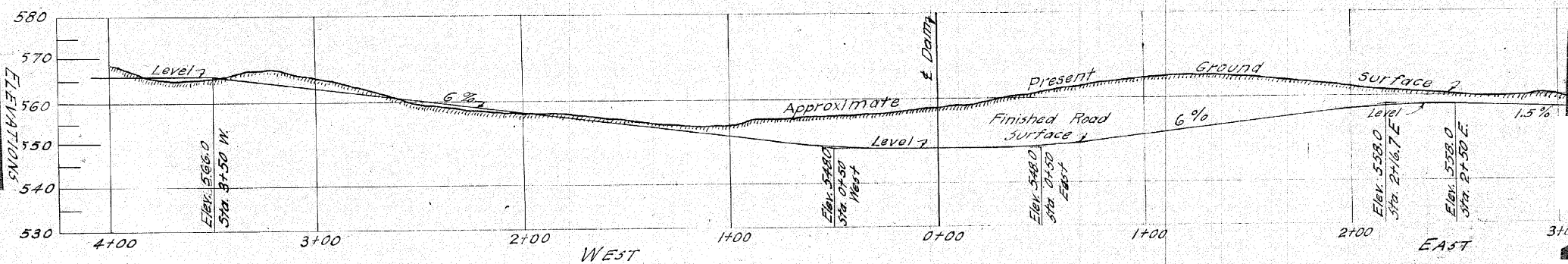
PLAN
SOUTH OF L

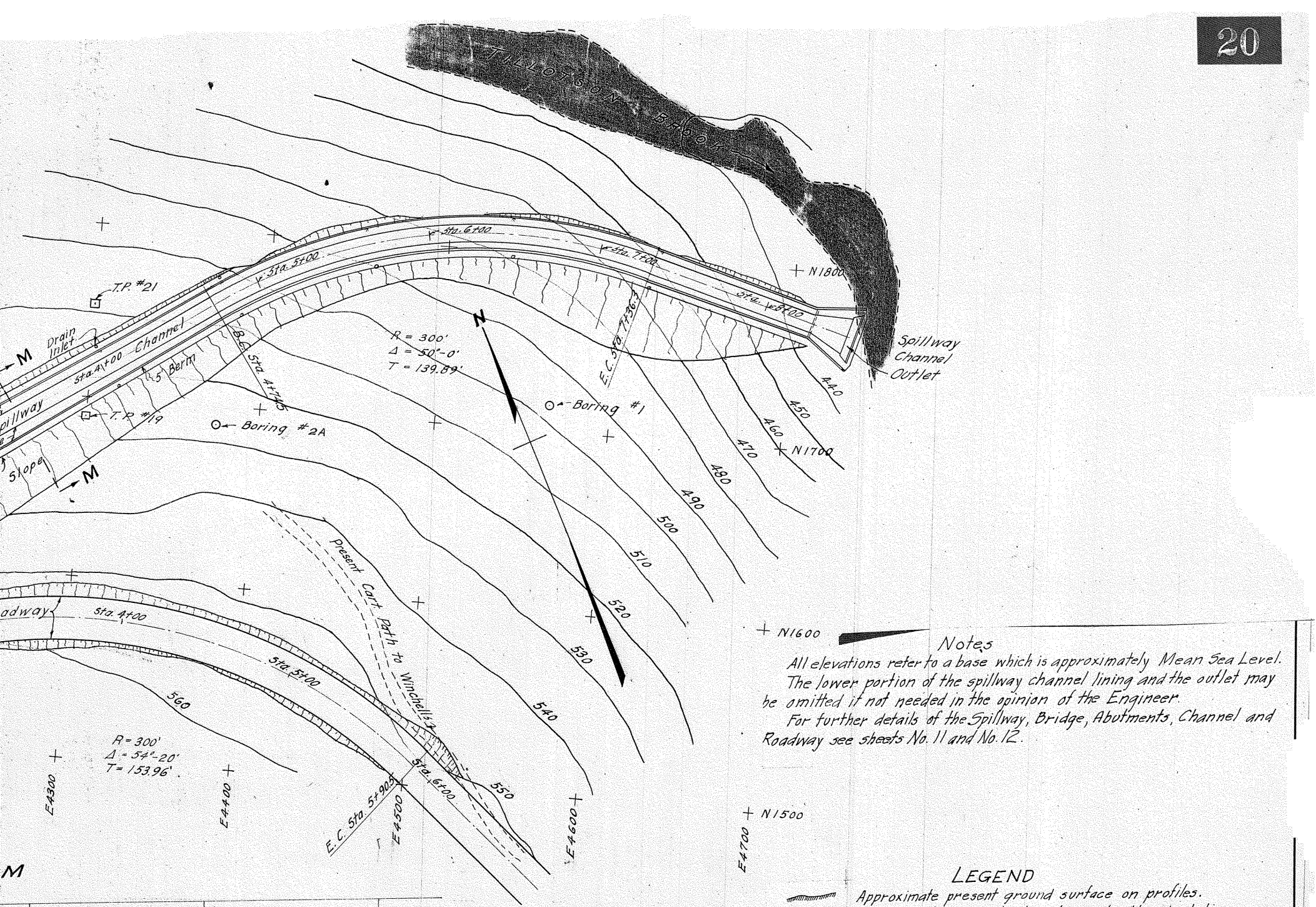


PROFILE OF PROPOSED ROAD
NORTH OF DAM



PROFILE OF PROPOSED ROADS
SOUTH OF DAM



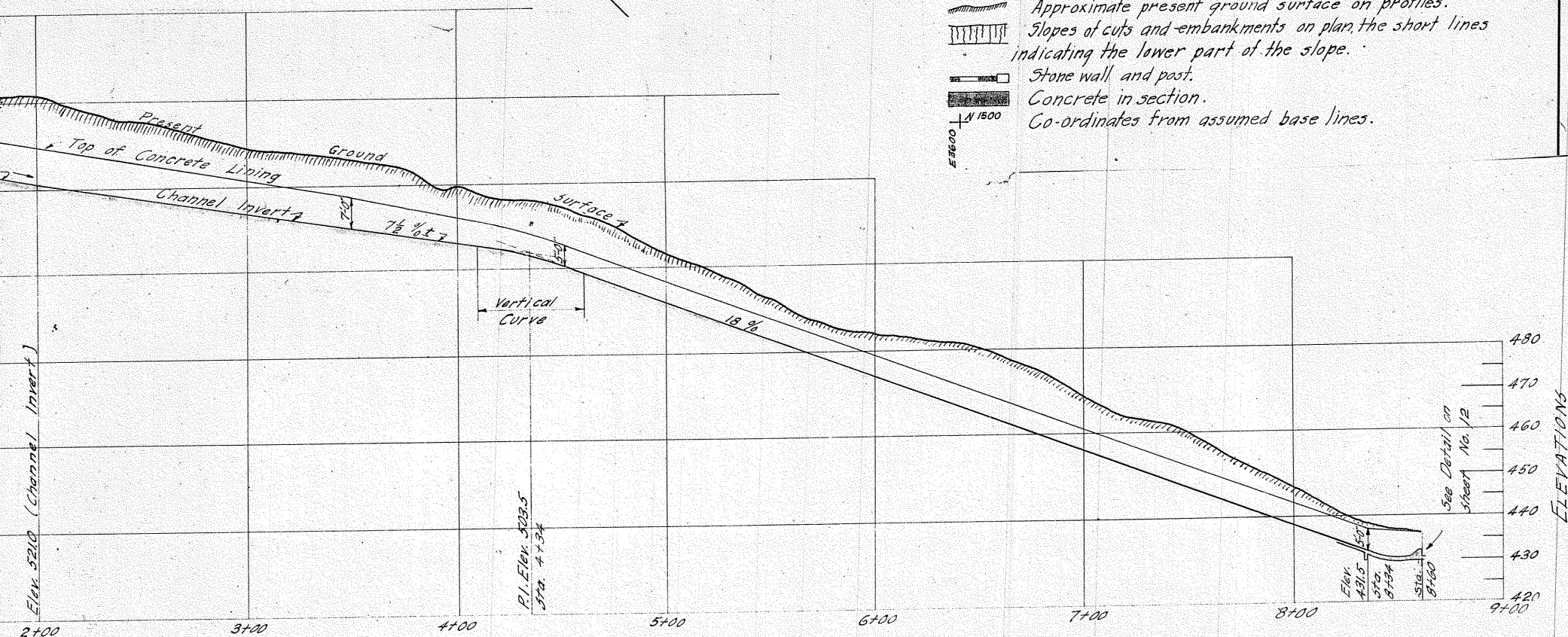


Notes

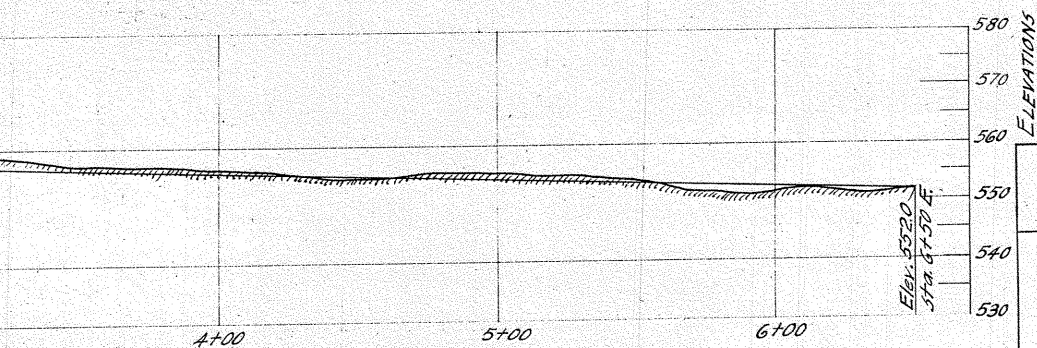
All elevations refer to a base which is approximately Mean Sea Level.
The lower portion of the spillway channel lining and the outlet may be omitted if not needed in the opinion of the Engineer.
For further details of the Spillway, Bridge, Abutments, Channel and Roadway see sheets No. 11 and No. 12.

LEGEND

- Approximate present ground surface on profiles.
- Slopes of cuts and embankments on plan, the short lines indicating the lower part of the slope.
- Stone wall and post.
- Concrete in section.
- Co-ordinates from assumed base lines.



PROFILE OF SPILLWAY CHANNEL

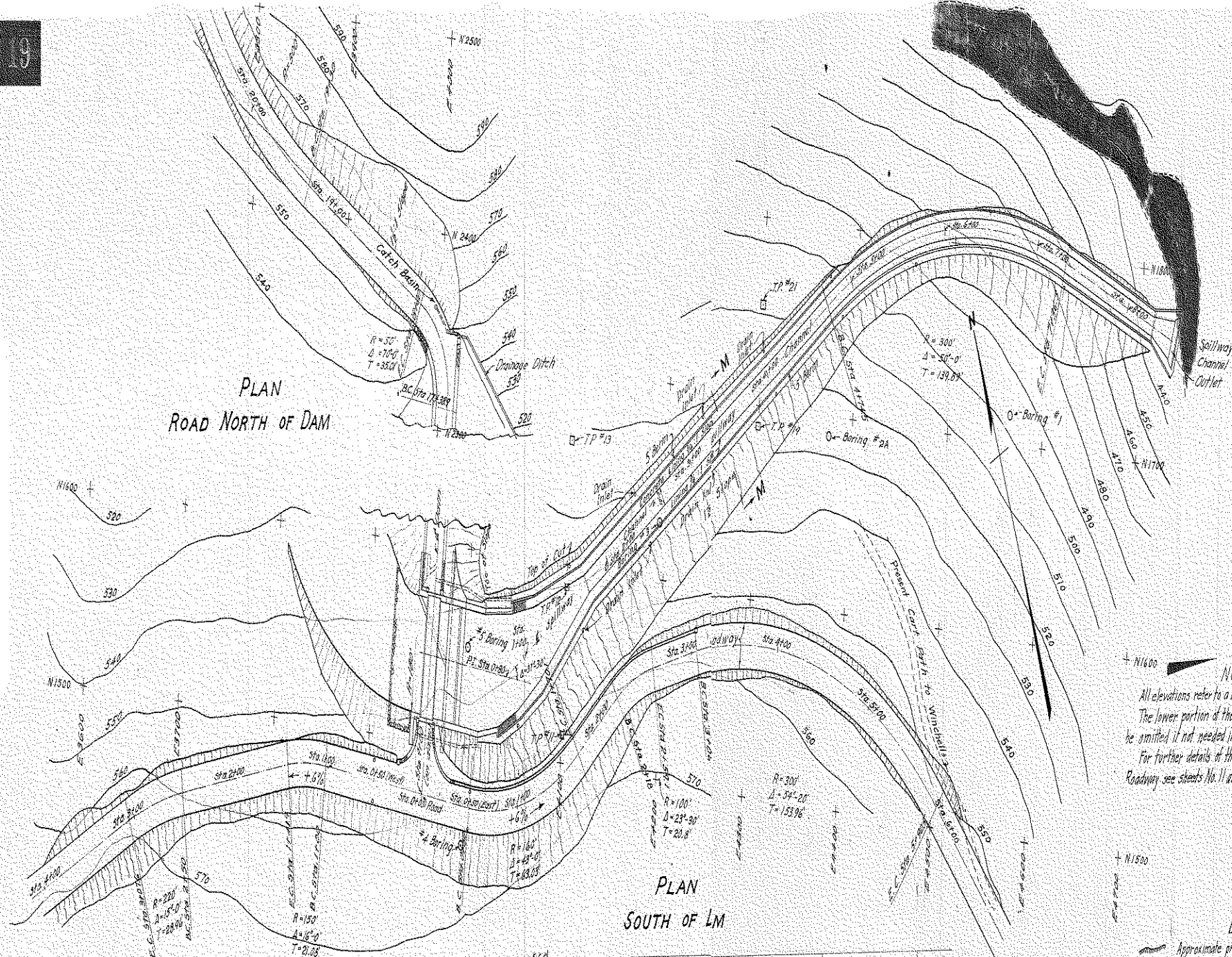
CITY OF WESTFIELD, MASS.
GRANVILLE STORAGEChairman } Board of Public Works
Supt.BOARD OF PUBLIC WORKS
WESTFIELD, MASS.
WATER SUPPLY GRANVILLE STORAGESPILLWAY CHANNEL AND ROADS
PLAN AND PROFILESScales: Hor. 1"=40'-0" December, 1926
Vert. 1"=20'-0"

FAY, SPOFFORD & THORNDIKE, CONSULTING ENGINEERS, BOSTON

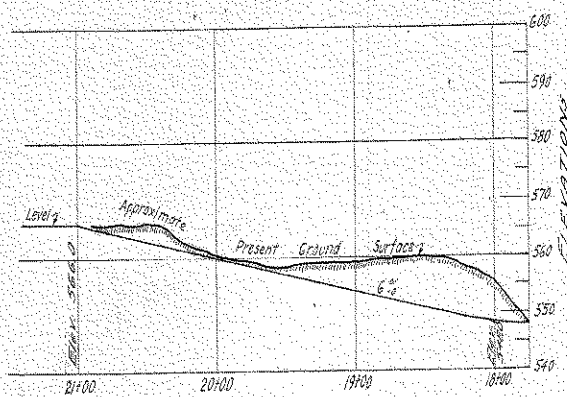
DES. H.J.W. TR. B.B.W. FILE NO. Wg-1
DR. B.B.W. CHK. H.J.Williams
APPROVED C. A. Fawell PLAN NO. 43

CONTRACT DRAWINGS SHEET No. 10 OF 14

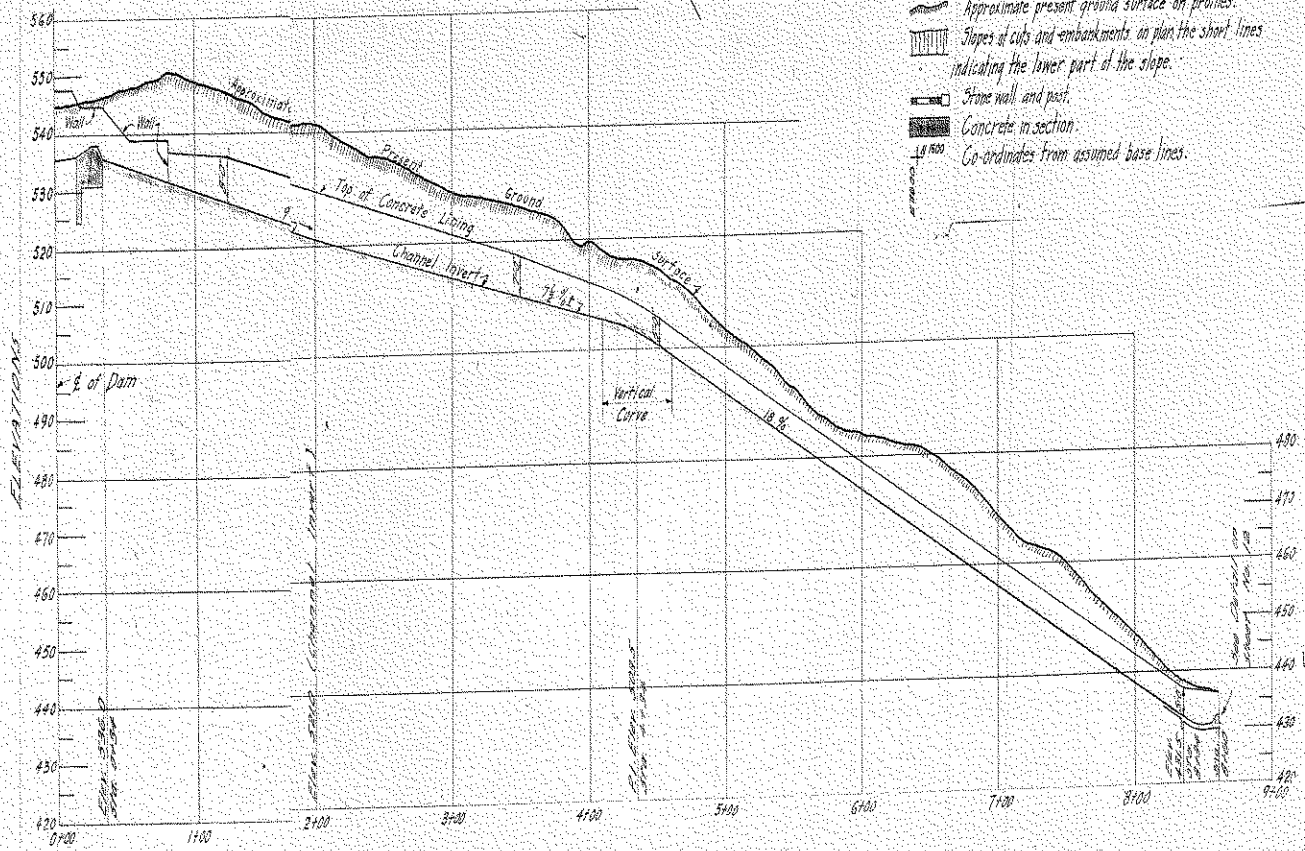
PLAN
ROAD NORTH OF DAM



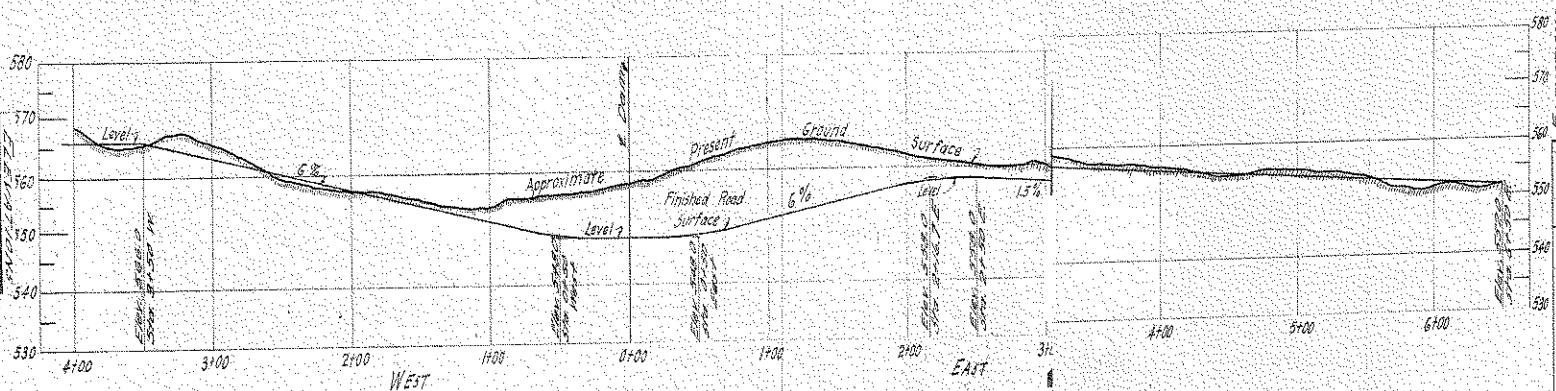
PROFILE OF PROPOSED ROAD
NORTH OF DAM



PROFILE OF SPILLWAY CHANNEL



PROFILE OF PROPOSED ROADS
SOUTH OF DAM



CITY OF WESTFIELD, MASS. GRANVILLE STORAGE		BOARD OF PUBLIC WORKS WESTFIELD, MASS. WATER SUPPLY GRANVILLE STORAGE	
Chairman		Board of Public Works	
Supt.		Supt.	
<p>Spillway Channel and Roads PLAN AND PROFILES</p> <p>Scales: Hor. 1"=40'-0" Vert. 1"=20'-0"</p> <p>December 1926</p> <p>FAY, SPOFFORD & THORNDIKE, CONSULTING ENGINEERS, BOSTON</p> <p>DES. H.J.W. TH. B.B.W. FILE NO. Wg-1 DR. B.B.W. CHK. A.J. Williams</p> <p>APPROVED: C.A. Fawcett</p> <p>PLAN NO. 43</p>			

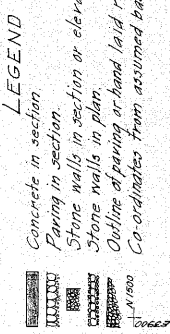
Plan Original Book and Page: ch17021

Name of specific Plan:

**Board of Public Works Westfield Mass Water Supply-Granville
Storage-Spillway & Appurtenances**



<u>Category</u>	<u>Index</u>
City/Town	Granville



PLAN

Notes
All elevations refer to a base which is approximately Mean Sea Level.
For plans and profiles of Spillway Channel and Roads see sheet No. 10.
For further details of Spillway, Abutments Bridge, Channel, Roadway,
Main Intake and Catch Basins see sheet No. 12.
For detailed section of stone walls see sheet No. 3.



BOARD OF PUBLIC WORKS
WESTFIELD, MASS.
WATER SUPPLY GRANVILLE STORAGE

SPILLWAY AND APPURTENANCES

Scale 1/8"=1'-0"		December 1926	
FAY, SPOFFORD & THORNDIKE, CONSULTING ENGINEERS, BOSTON			
DES. H.W. EM.	TR. B.W.	FILE NO.	Wg-1
DR. B.W.	CON. J.W. Williams	PLAN NO.	44
APPROVED		C. A. Fawell	

C.S. No. _____
CONTRACT DRAWINGS SHEET NO. 11 OF 14

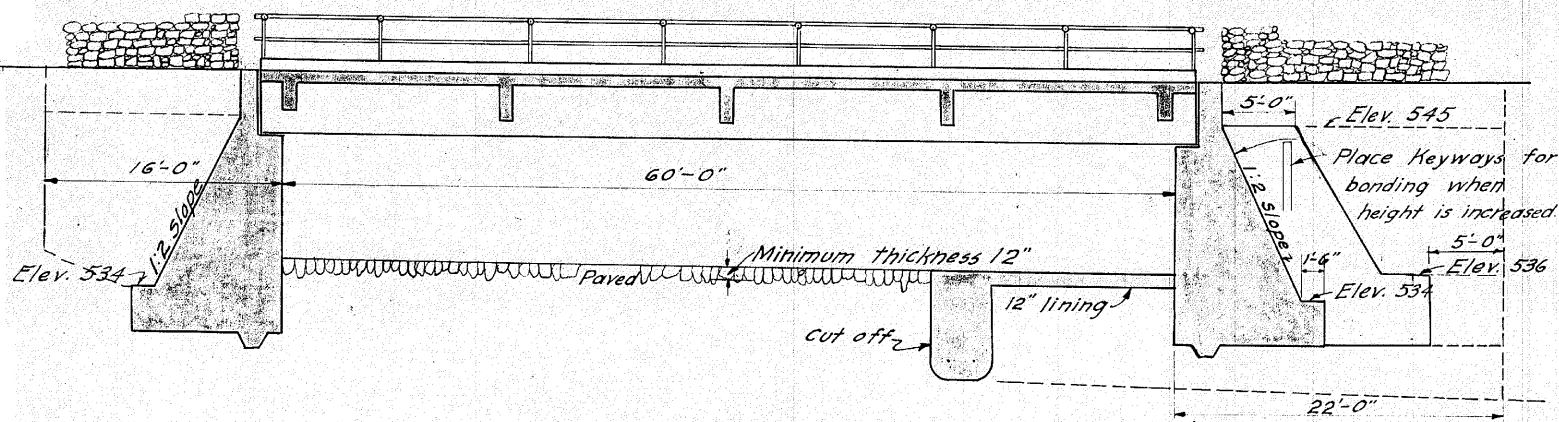
Plan Original Book and Page: ch17023

Name of specific Plan:

**Board of Public Works Westfield Mass Water Supply-Granville
Storage-Spillway Bridge & Channel - Sections & Details**



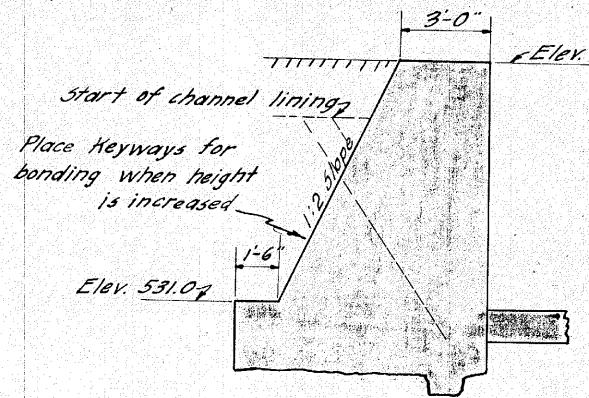
Category	Index
Bridges	Spillway Bridge- Granville St
City/Town	Granville



SECTION K-K

For Location see Sheet No. 11

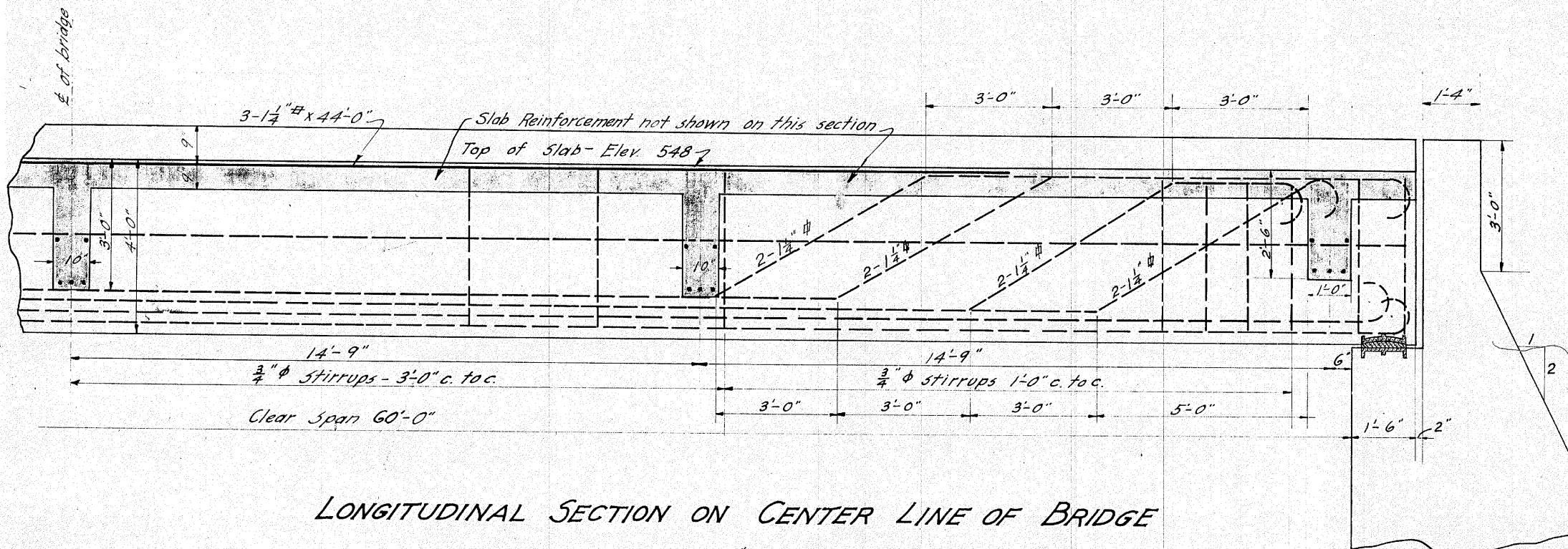
Scale $\frac{1}{8}'' = 1'-0''$



SECTION N-N

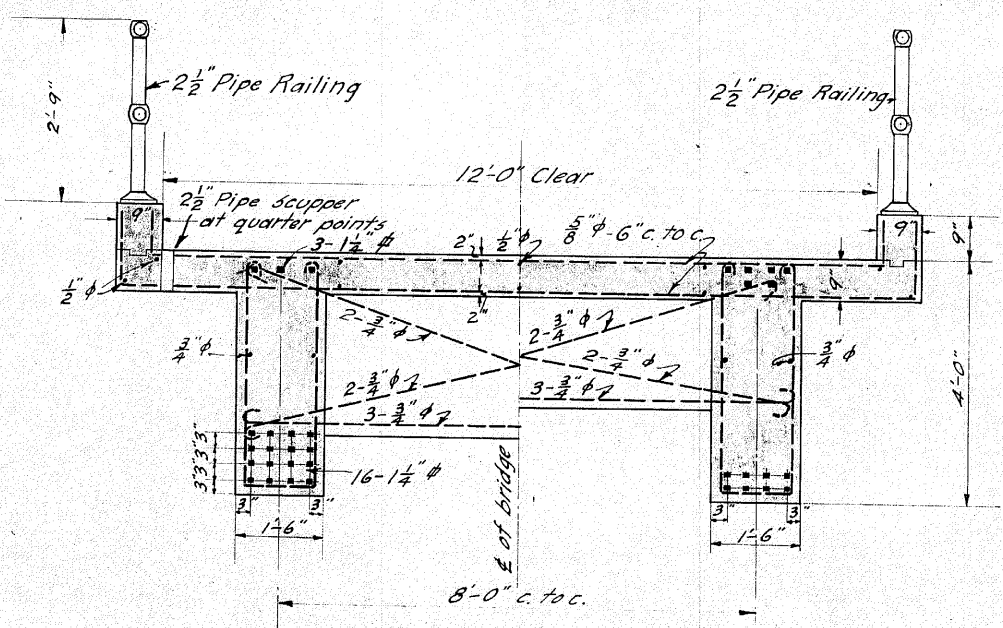
For Location see Sheet No. 11

Scale $\frac{1}{4}'' = 1'-0''$



LONGITUDINAL SECTION ON CENTER LINE OF BRIDGE

Scale $\frac{1}{2}'' = 1'-0''$

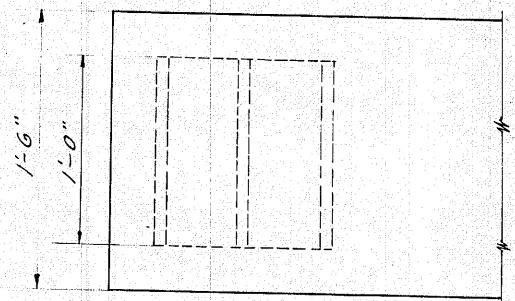


HALF CROSS SECTION NEAR CENTER

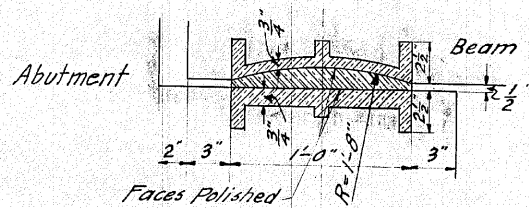
HALF CROSS SECTION NEAR END FLOOR BEAM

Scale $\frac{1}{2}'' = 1'-0''$

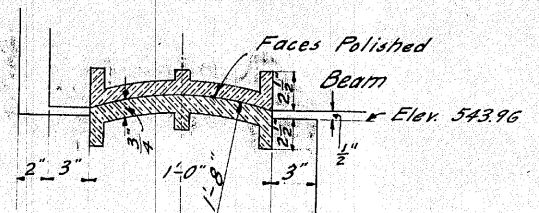
SPILLWAY BRIDGE



PLAN



MOVABLE END 2 Required

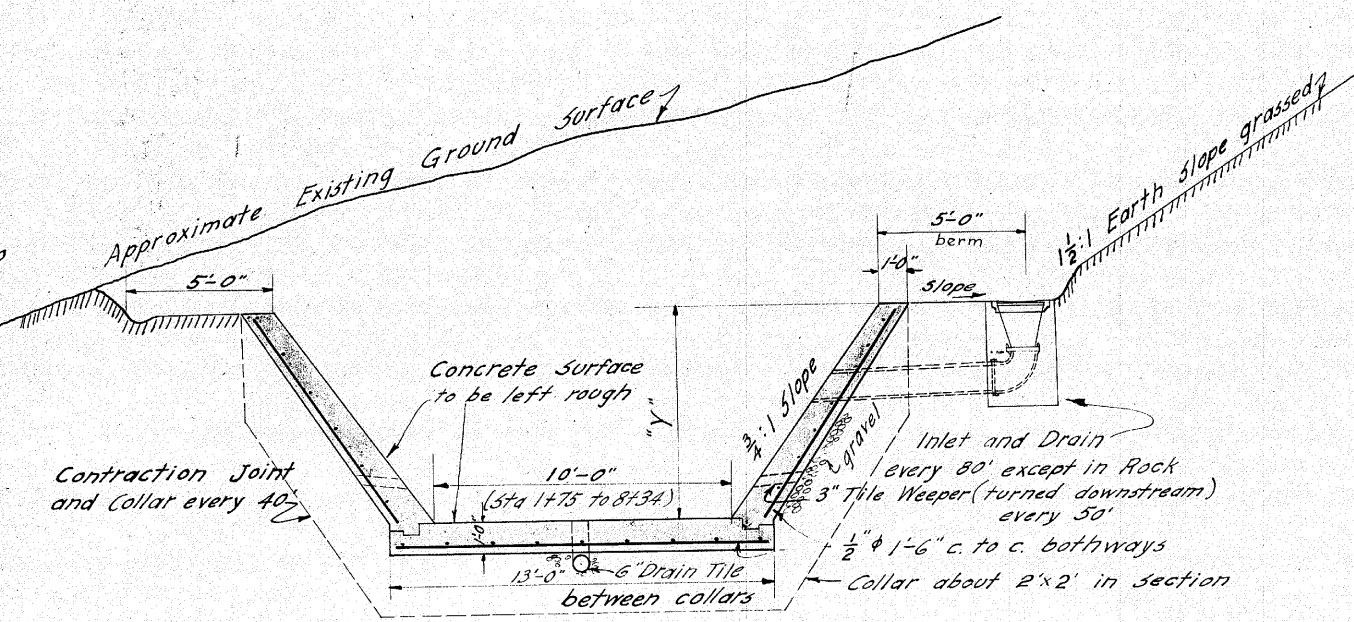


FIXED END 2 Required

BRIDGE BEARING CASTINGS

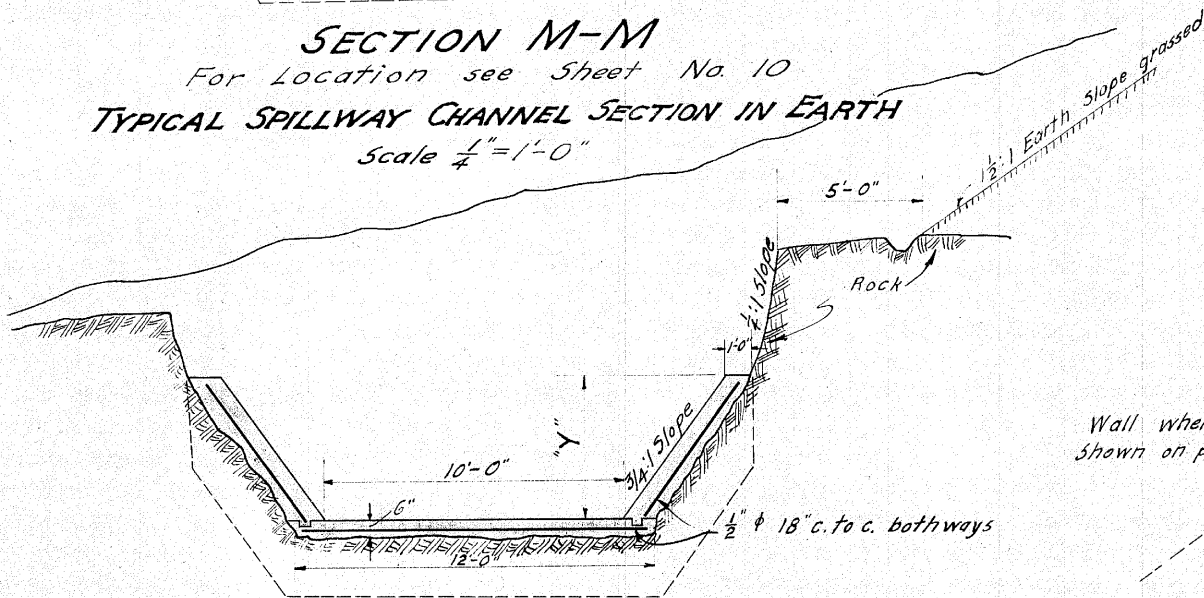
(Manganese Bronze)

Scale $\frac{1}{2}'' = 1'-0''$

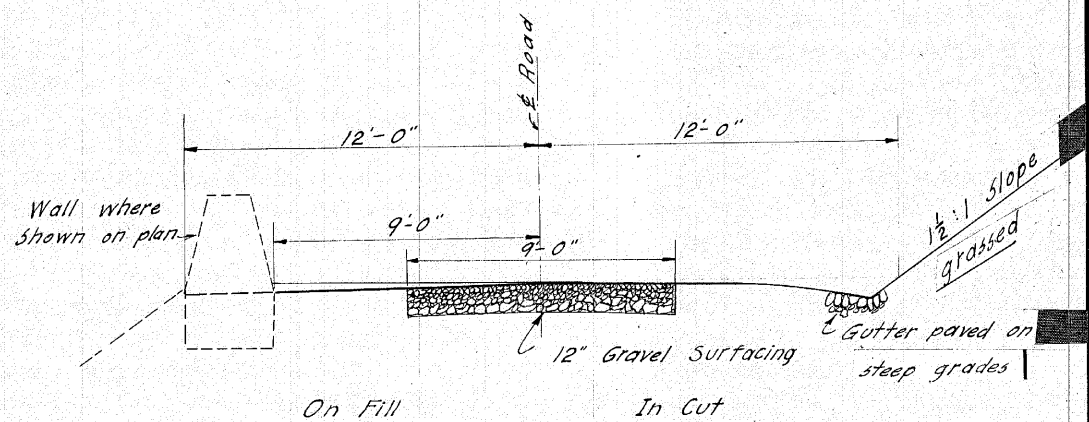


STATION	"Y"
1+25	8 Feet
1+75	8 "
3+50	7 "
4+50	5 "
8+34	5 "

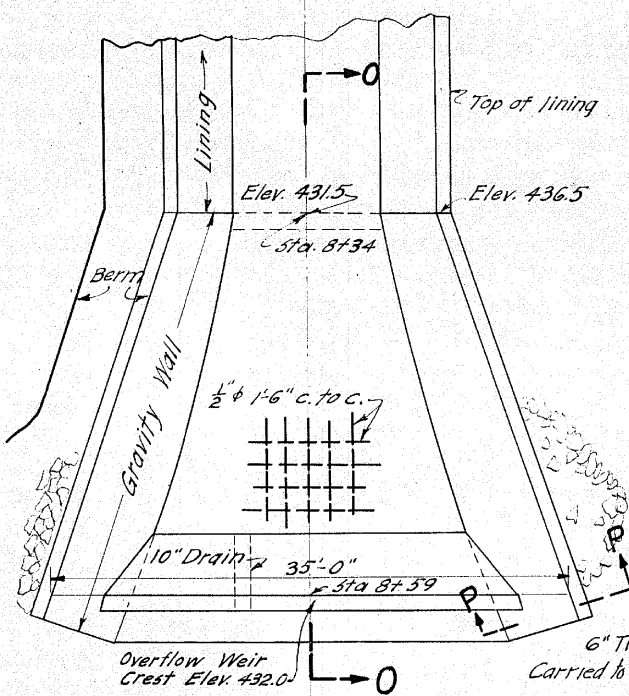
SECTION M-M
For Location see Sheet No. 10
TYPICAL SPILLWAY CHANNEL SECTION IN EARTH
Scale $\frac{1}{4}'' = 1'-0''$



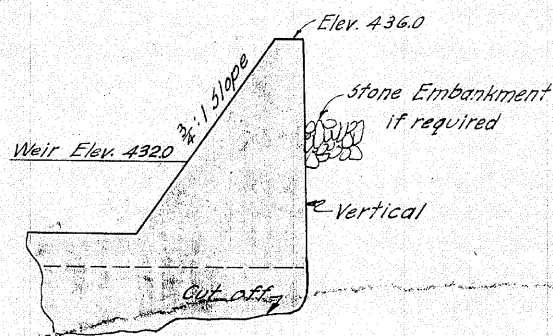
TYPICAL SPILLWAY CHANNEL SECTION IN ROCK
Scale $\frac{1}{4}'' = 1'-0''$



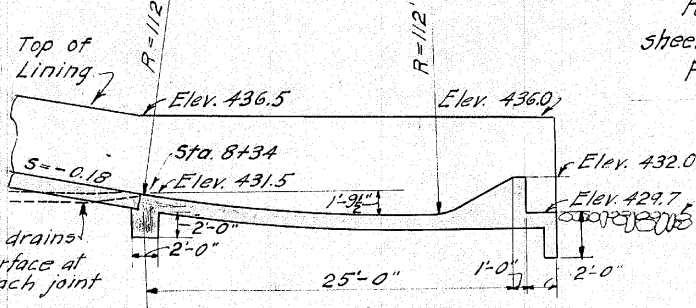
TYPICAL CROSS SECTION OF ROADWAY
Scale $\frac{1}{4}'' = 1'-0''$



SPILLWAY CHANNEL OUTLET
Scale $\frac{1}{8}'' = 1'-0''$



SECTION P-P
Scale $\frac{1}{4}'' = 1'-0''$



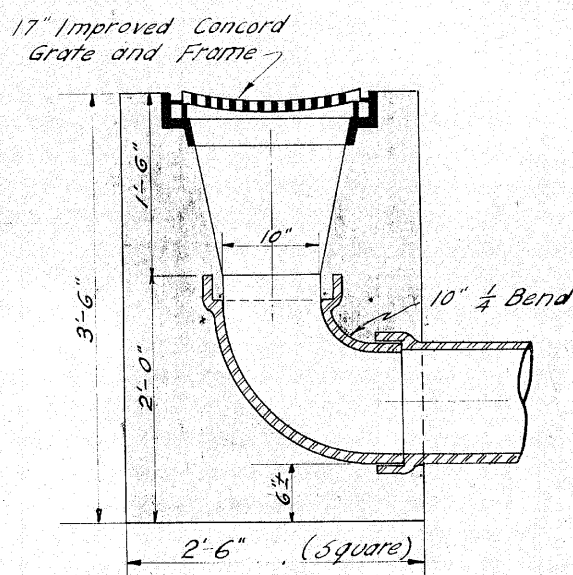
SECTION O-O
Scale $\frac{1}{8}'' = 1'-0''$

Notes

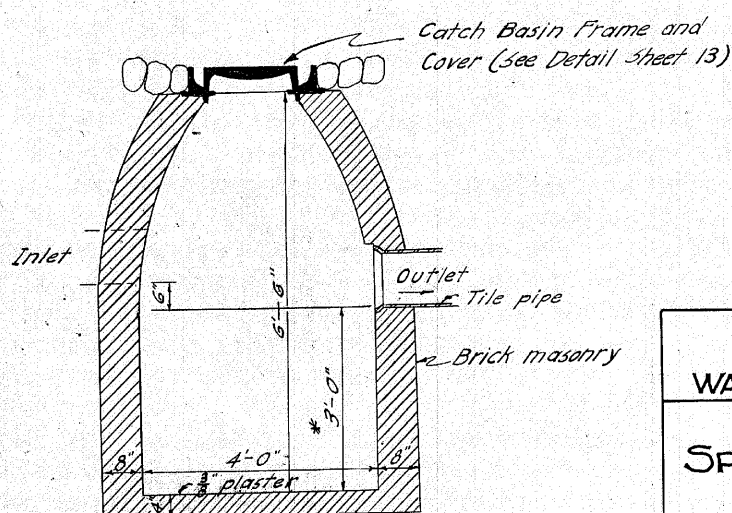
All elevations refer to a base which is approximately Mean Sea Level.
For plans and profiles of Spillway Channels and Roads see sheet No. 10.
For detailed plan and section at Spillway see sheet No. 11.

LEGEND

- Concrete in section.
- Brick masonry in section.
- Bronze in section.
- Surface of ledge rock in section.
- Paving in section.
- Gravel surfacing in section.
- Tile in section.



DRAIN INLET
Scale $1'' = 1'-0''$



CROSS SECTION OF CATCH BASIN
Scale $\frac{1}{2}'' = 1'-0''$

* Note - This dimension will vary to secure necessary grades on drains.

CITY OF WESTFIELD, MASS.
GRANVILLE STORAGE

Chairman } Board of Public Works
Supt.

BOARD OF PUBLIC WORKS WESTFIELD, MASS. WATER SUPPLY GRANVILLE STORAGE			
SPILLWAY BRIDGE AND CHANNEL SECTIONS AND DETAILS			
Scales as noted		December 1926	
FAY, SPOFFORD & THORNDIKE, CONSULTING ENGINEERS, BOSTON			
DES. H.J.W. DR. B.B.W.	E.M.	TR. B.B.W. CHK. H.J. Williams	FILE NO. Wg-1
APPROVED C. R. Fawell		PLAN NO. 45	

Plan Original Book and Page: ch17025

Name of specific Plan:

**Board of Public Works Westfield Mass Water Supply-Granville
Storage-Misc Equipment & Castings, Racks, Screens, Guides,
Lifter, Manhole Cover, Fencing & Floor Grading**

<u>Category</u>	<u>Index</u>
City/Town	Granville



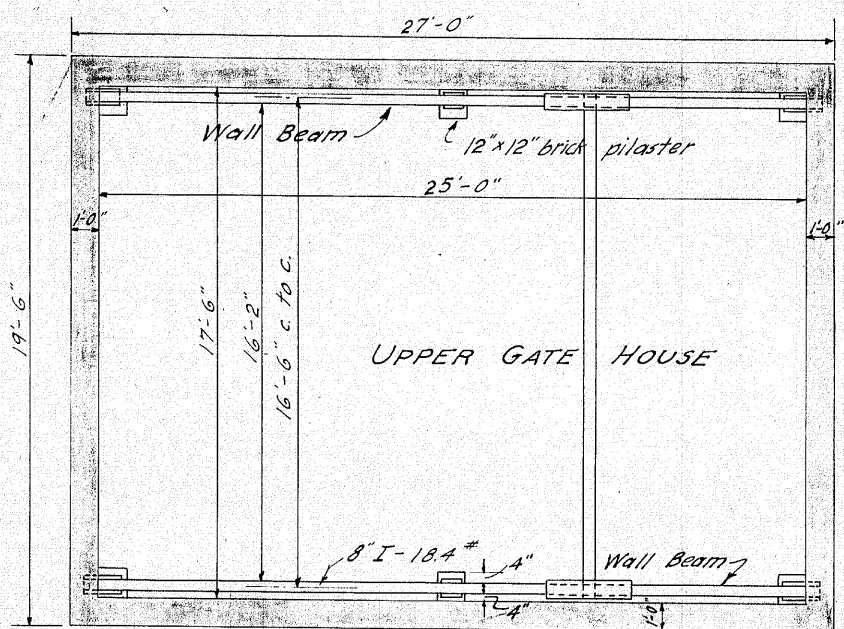
Plan Original Book and Page: ch17027

Name of specific Plan:

**Board of Public Works Westfield Mass Water Supply-Granville
Storage-Misc Steel Details-Crane, Bracket, Ladders &
Temporary Screen Guides**

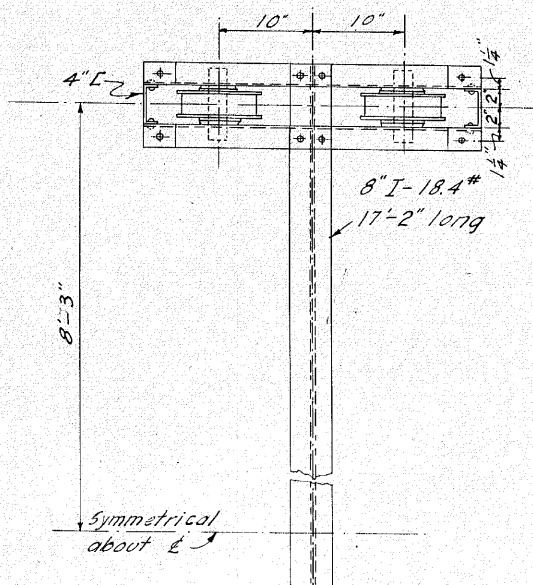
<u>Category</u>	<u>Index</u>
City/Town	Granville



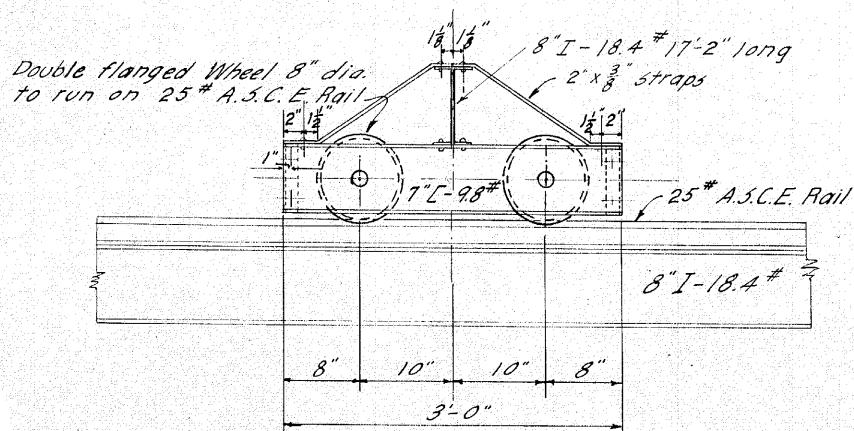


ASSEMBLY PLAN OF CRANE

Scale $\frac{1}{4}$ " = 1'-0"



PLAN



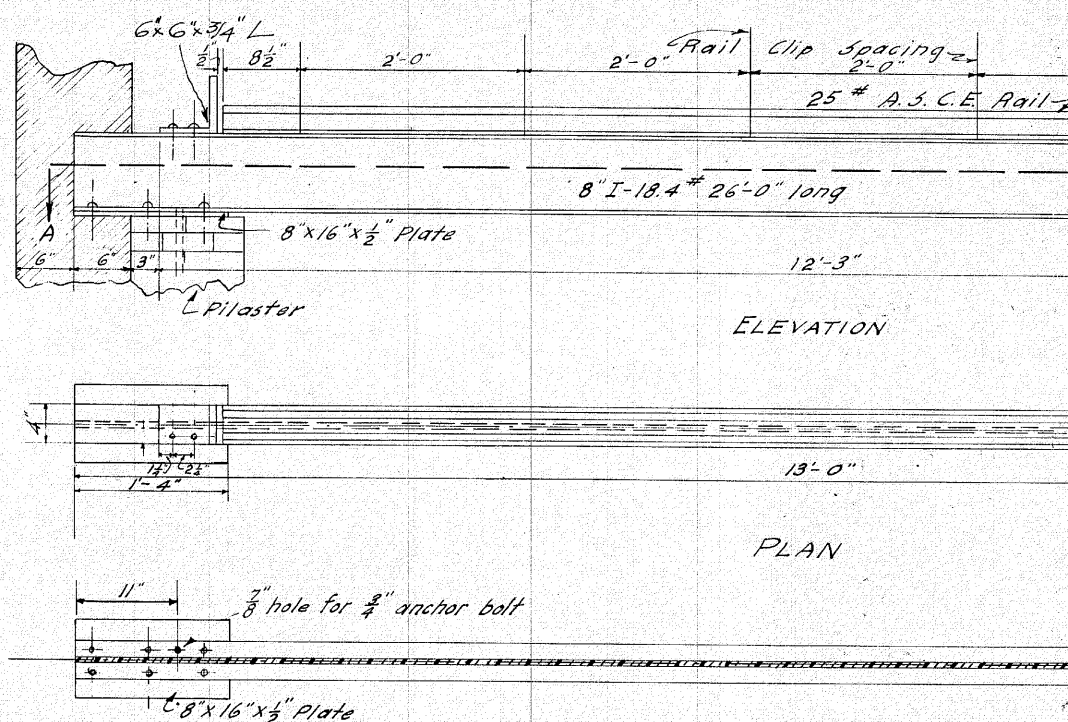
END TRUCK

Scale 1" = 1'-0"

CRANE

Note:

Unless otherwise directed exposed metal surfaces of crane and beams shall be given a good shop coat of red lead or carbon paint, and after erection, when directed, at least two good coats of best quality carbon paint colored as required.

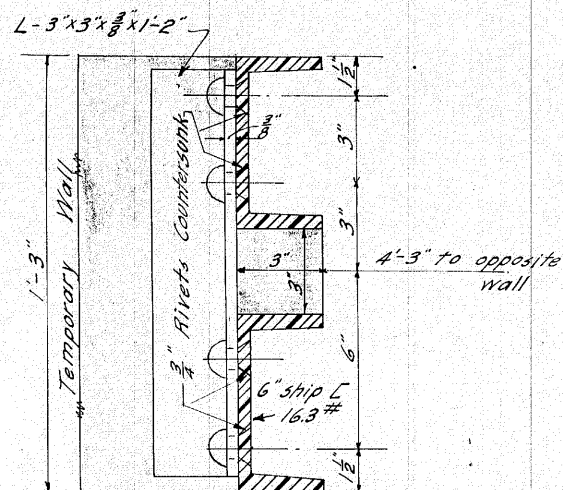


ELEVATION

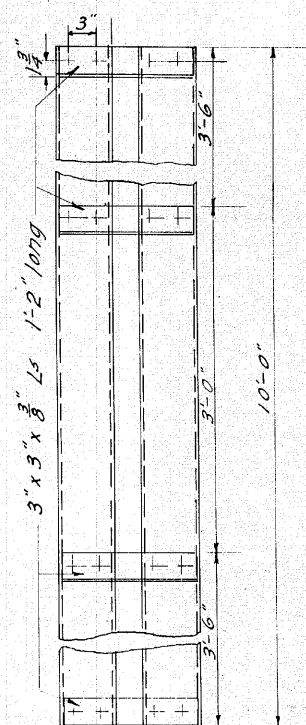
PLAN

SECTION A-A
WALL BEAMS

(2 Required)
Scale 1" = 1'-0"

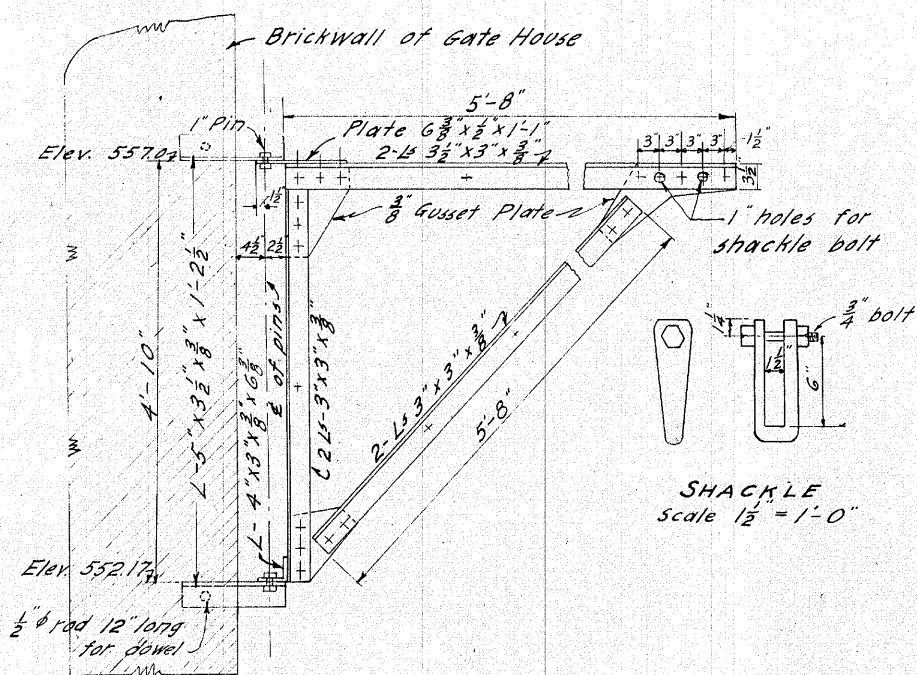


HORIZONTAL SECTION
Scale 3" = 1'-0"



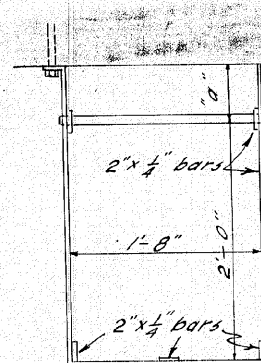
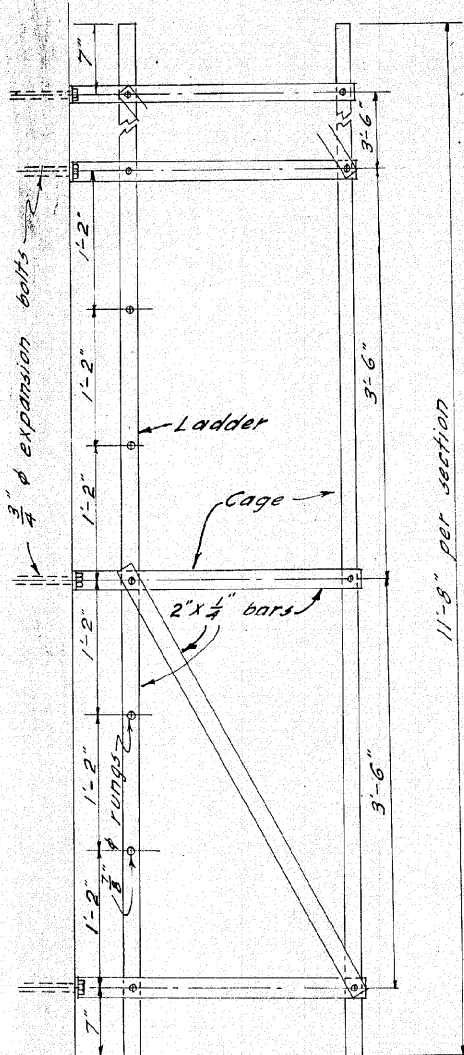
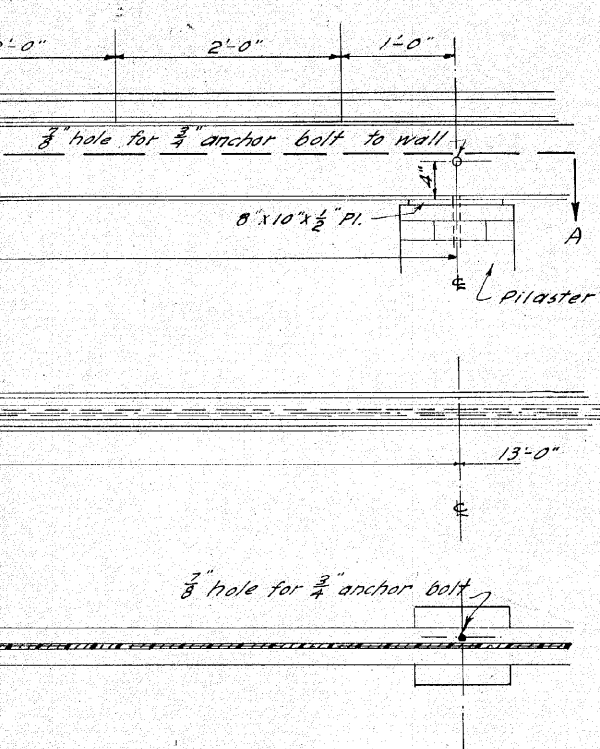
REAR ELEVATION
Scale 1" = 1'-0"

TEMPORARY GUIDES FOR SCREENS



DETAIL OF HINGED BRACKET

Scale $\frac{3}{4}$ " = 1'-0"



("a" = 6" except where increased for set back of lower 13' of Wall G)

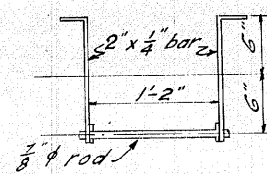
SECTION TYPE A

Required:

One 51'-0" long (Wall D Upper Gate House)

One 79'-0" long (Wall G Upper Gate House)

Cage omitted from bottom 7'



SECTION TYPE B

Required:

One 6'-0" long (Wall C Upper Gate House)

One 9'-6" long (Lower Gate House)

DETAIL OF LADDERS

Scale 1" = 1'-0"

LEGEND

- Concrete in section.
- Brickwork in section.
- Steel in section.

Notes

- For location of Temporary Guides for Screens see Sheet No. 6.
- For location of Hinged Bracket see Sheet No. 7.
- For location of Ladders see Sheets Nos. 5, 6 and 9.

CITY OF WESTFIELD, MASS.
GRANVILLE STORAGE

Chairman } Board of Public Works
Supt.

BOARD OF PUBLIC WORKS
WESTFIELD, MASS.
WATER SUPPLY GRANVILLE STORAGE

MISCELLANEOUS STEEL DETAILS
CRANE, BRACKET, LADDERS AND
TEMPORARY SCREEN GUIDES

Scales as noted December 1926

FAY, SPOFFORD & THORNDIKE, CONSULTING ENGINEERS, BOSTON

DES. H.J.W.

TR. R.B.S.

FILE NO.

Wg-1

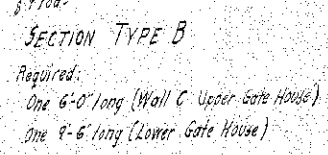
APPROVED

C. A. Farrell

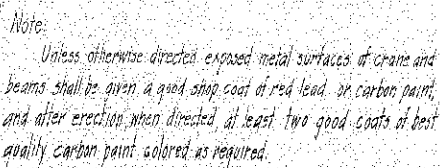
PLAN NO.

47

CONTRACT DRAWINGS SHEET No. 14 OF 14



For location of Temporary Guides for Screens see Sheet No. 6.
For location of Hinged Bracket see Sheet No. 7.
For location of Ladders see Sheets Nos. 5, 6 and 9.



CONTRACT DRAWINGS SHEET No.14 of 14

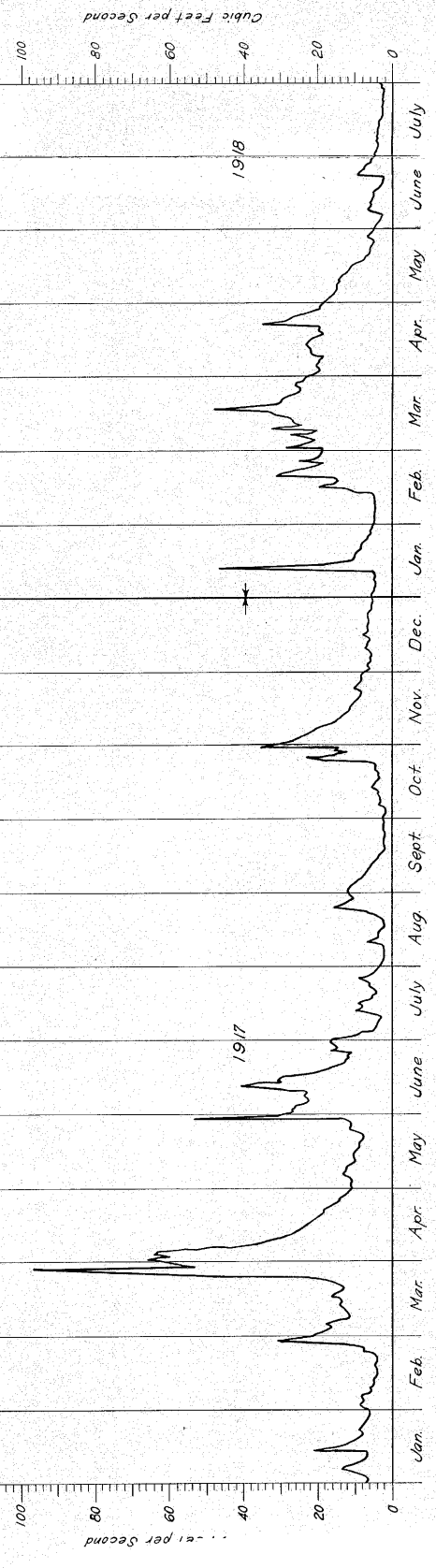
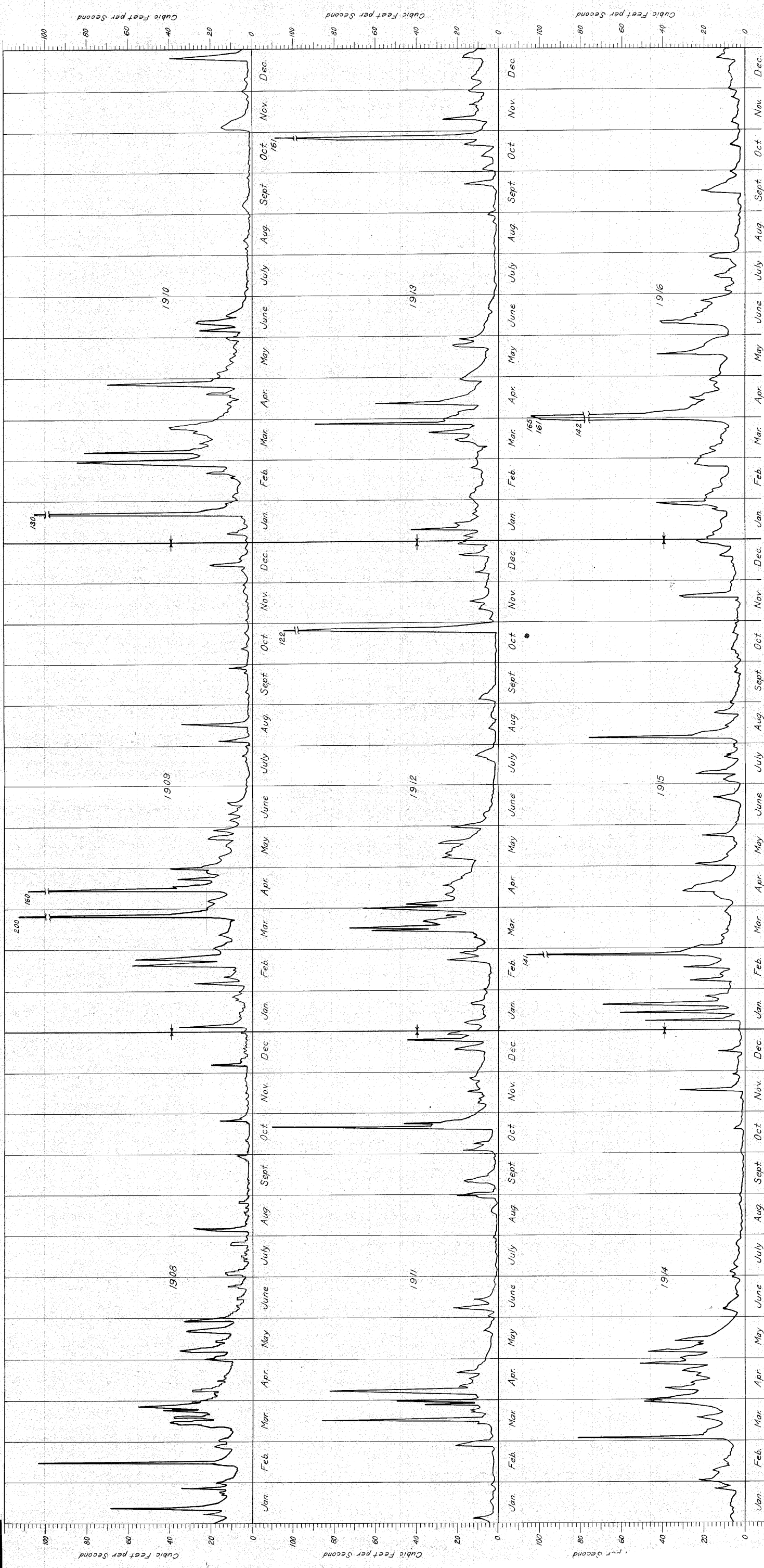
Plan Original Book and Page: ch17029

Name of specific Plan:

**Board of Public Works Westfield Mass Water Supply-Granville
Storage-Hydrograph of Brook Flow at Site of Proposed Dam**



<u>Category</u>	<u>Index</u>
City/Town	Granville



Note.
Mean daily flow at the weir below the junction of Tillotson
and Hollister Brooks as determined by one or two gauge
readings per day.

BOARD OF PUBLIC WORKS WESTFIELD, MASS. WATER SUPPLY GRANVILLE STORAGE	
HYDROGRAPH OF BROOK FLOW AT SITE OF PROPOSED DAM	
December 1926	
FAY, SPOFFORD & THORNDIKE, CONSULTING ENGINEERS, BOSTON	FILE NO. Wg-1
DR. E.C.W. CHICKERING	APPROVED
ED. FAWCETT	NO. 48

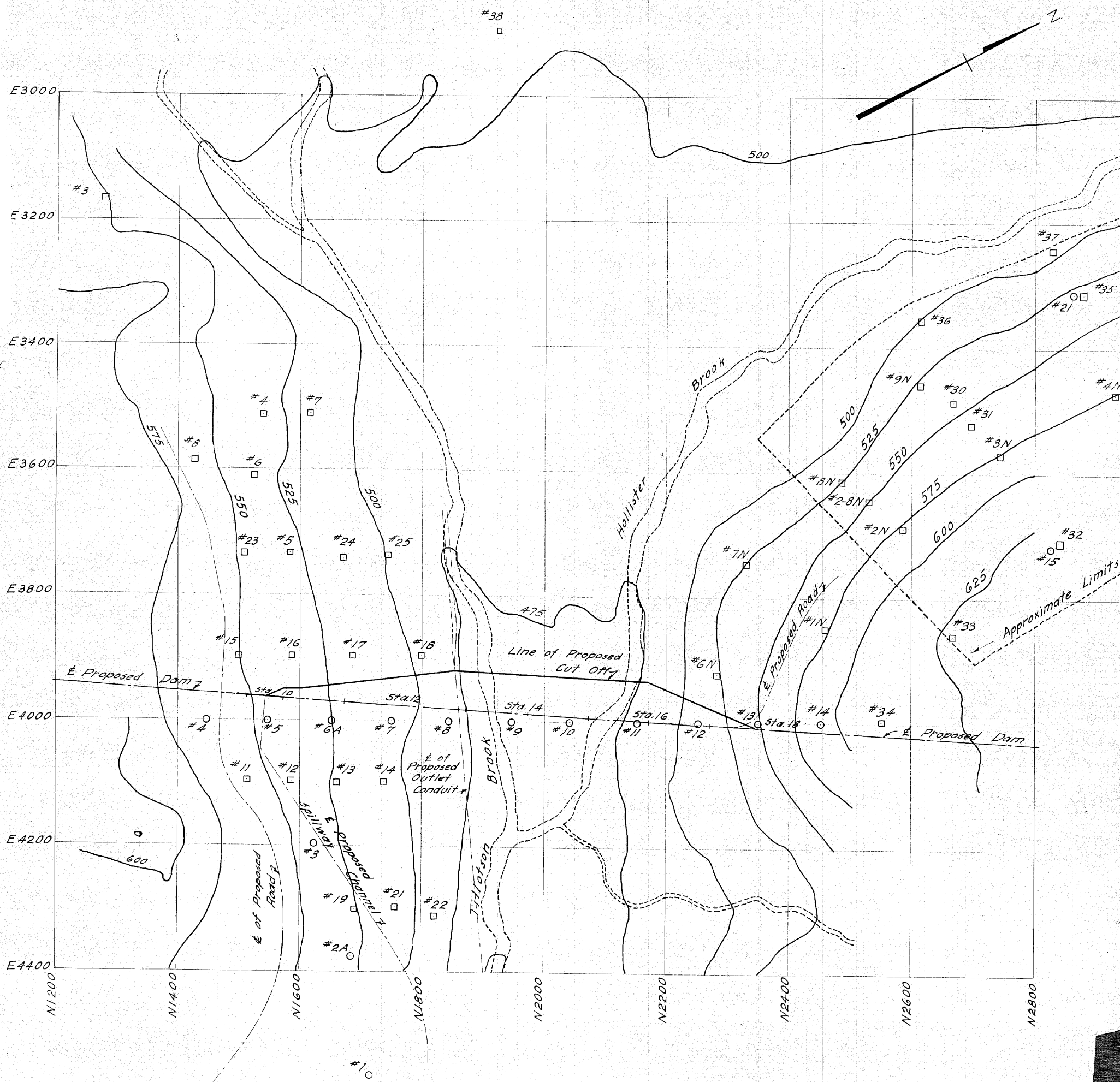
Plan Original Book and Page: ch17031

Name of specific Plan:

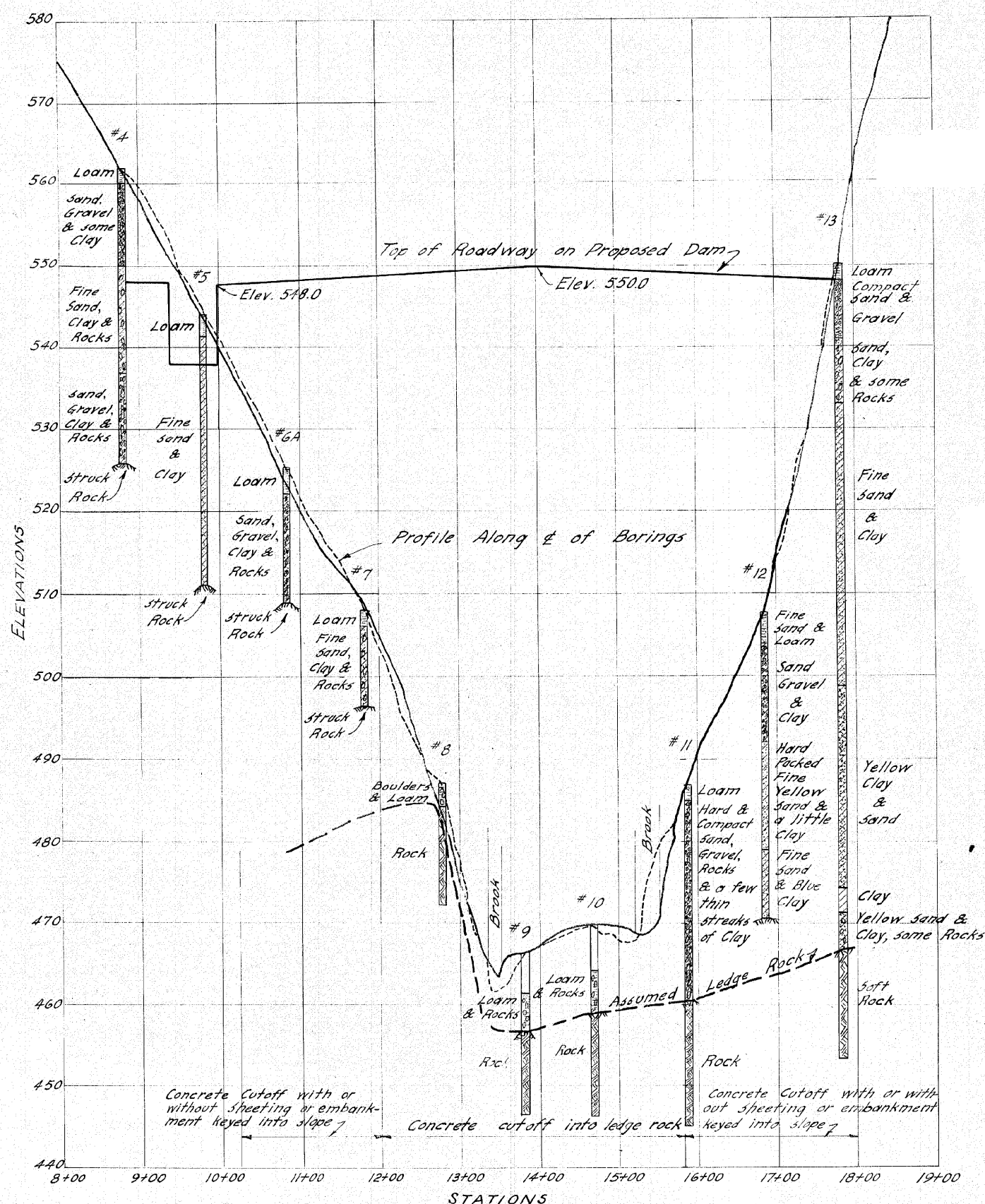
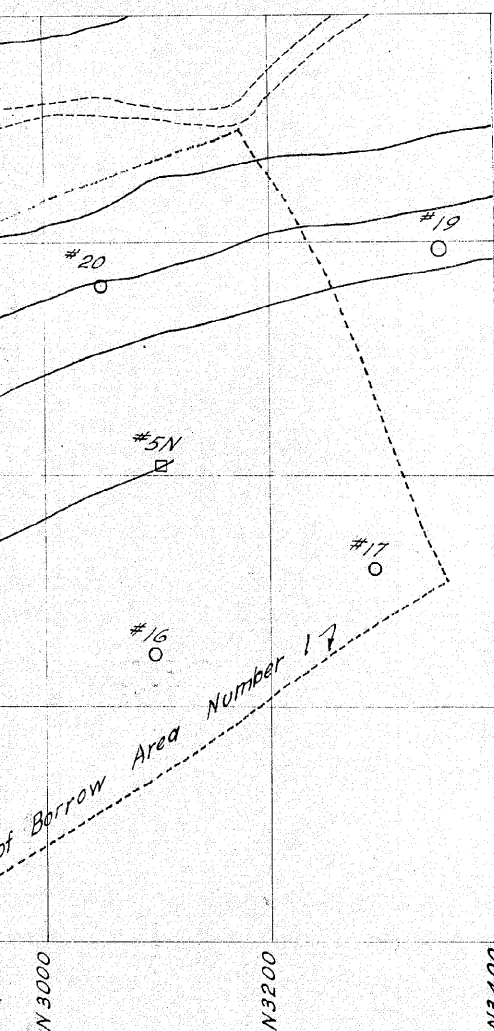
**Board of Public Works Westfield Mass Water Supply-Granville
Storage-Plan of Borring & Test Pits-Profile of Center Line of
Proposed Dam**



<u>Category</u>	<u>Index</u>
City/Town	Granville



PLAN SHOWING LOCATIONS OF BORINGS AND TEST PITS



Notes.

For other data on borings and test pits see sheet C.

All elevations refer to a base which is approximately Mean Sea Level.

Borings were made either by the core or the wash method, in the usual manner and with reasonable care. Their locations, depths and the character of material apparently encountered have been recorded in good faith.

Samples of the materials obtained from the borings have been preserved and labelled, and together with the records may be examined.

There is no expressed or implied agreement that the character of the material has been correctly indicated. Bidders should take into account the possibility that conditions affecting the cost or quantities of the work to be done may differ from those indicated.

Rock struck may be either a boulder or ledge.

LEGEND

- Test pits.
- Borings.

PROFILE ON CENTER LINE OF PROPOSED DAM

BOARD OF PUBLIC WORKS
WESTFIELD, MASS.
WATER SUPPLY GRANVILLE STORAGE

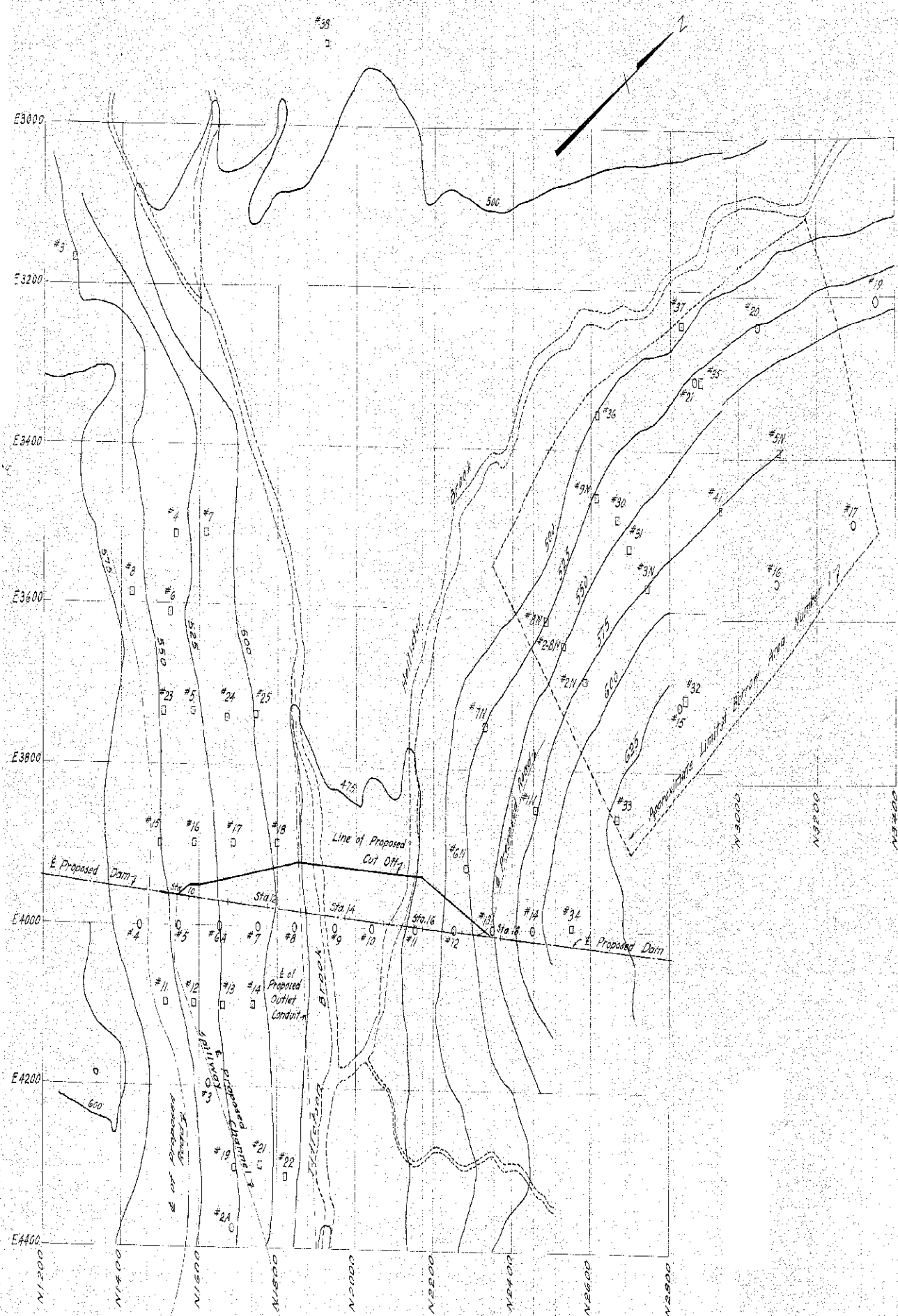
PLAN OF BORINGS AND TEST PITS
PROFILE ON CENTER LINE
OF PROPOSED DAM

Scales Hor. 1"=100' Vert. 1"=10' December 1926

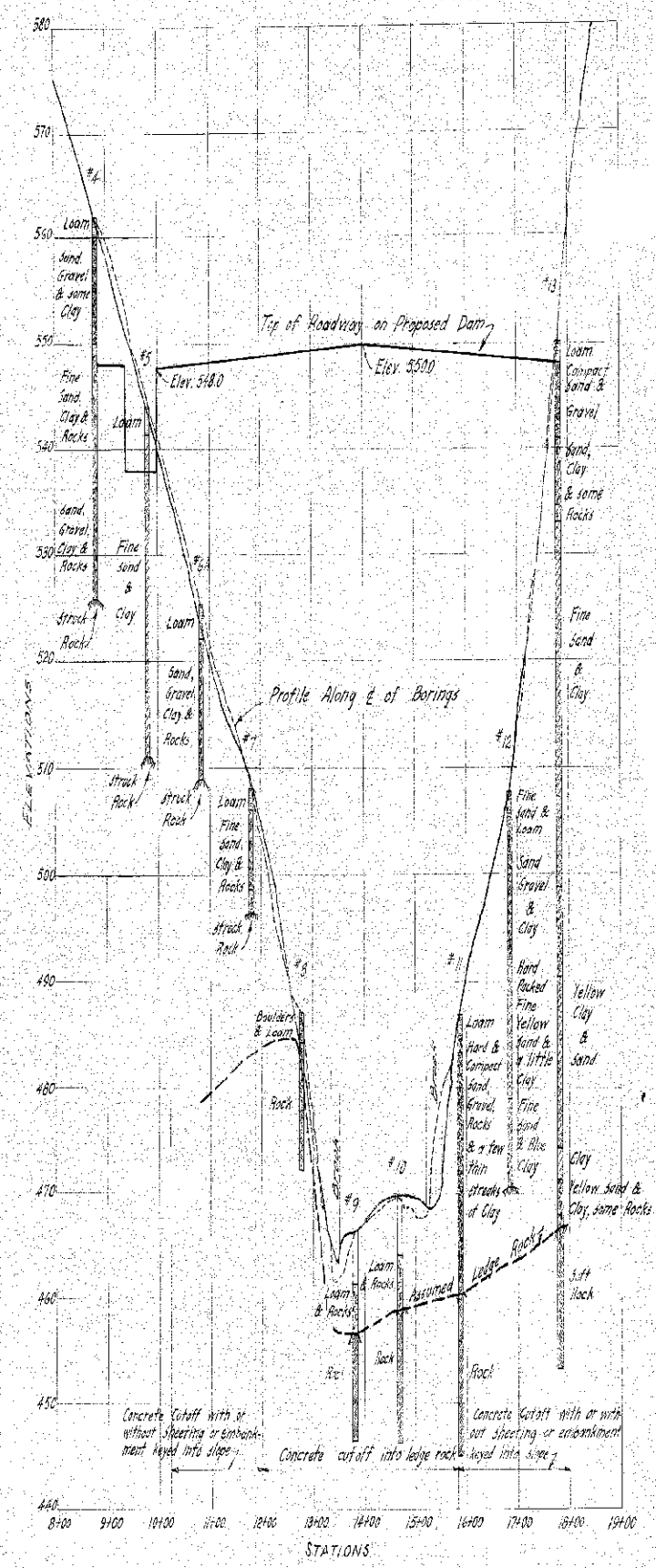
FAY, SPOFFORD & THORNDIKE, CONSULTING ENGINEERS, BOSTON

DES. DR. H.L.H. TR. H.L.H. CHK. H.J. Williams FILE NO. Wg-1

APPROVED C.A. Fawcett PLAN NO. 49



PLAN SHOWING LOCATIONS OF BORINGS AND TEST PITS



PROFILE ON CENTER LINE OF PROPOSED DAM

Notes

For other data on borings and test pits see sheet C.
All elevations refer to a base which is approximately Mean Sea Level.
Borings were made either by the core or the wash method, in the usual manner and with reasonable care. Their locations, depths and the character of material apparently encountered have been recorded in good faith.
Samples of the materials obtained from the borings have been preserved and labelled, and together with the records may be examined.
There is no expressed or implied agreement that the character of the material has been correctly indicated. Bidders should take into account the possibility that conditions affecting the cost or quantities of the work to be done may differ from those indicated.
Rock struck may be either a boulder or ledge.

LEGEND

- LEGEND
 □ Test pits
 ○ Borings

BOARD OF PUBLIC WORKS
WESTFIELD, MASS.
WATER SUPPLY GRANVILLE STORAGE

PLAN OF BORINGS AND TEST PITS
PROFILE ON CENTER LINE
OF PROPOSED DAM

Scales: hor. 1" = 100' Date: December 1926
vert. 1" = 10'

FAY, SPENCER & THORNDIKE, CONSULTING ENGINEERS, BOSTON

DES. DR. <i>H.L.H.</i>	TR. <i>H.L.H.</i> C.R. <i>Williams</i>	FILE NO. <i>Wg-1</i>
APPROVED <i>C. F. Farrell</i>	PLAN NO. <i>49</i>	

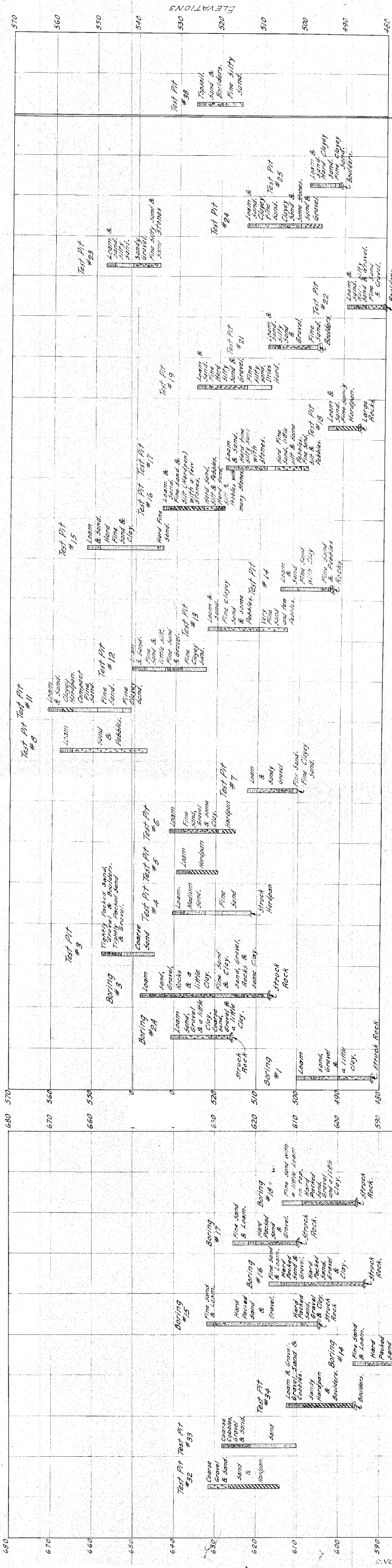
Plan Original Book and Page: ch17033

Name of specific Plan:

**Board of Public Works Westfield Mass Water Supply-Granville
Storage-Data from Borring & Test Pits**

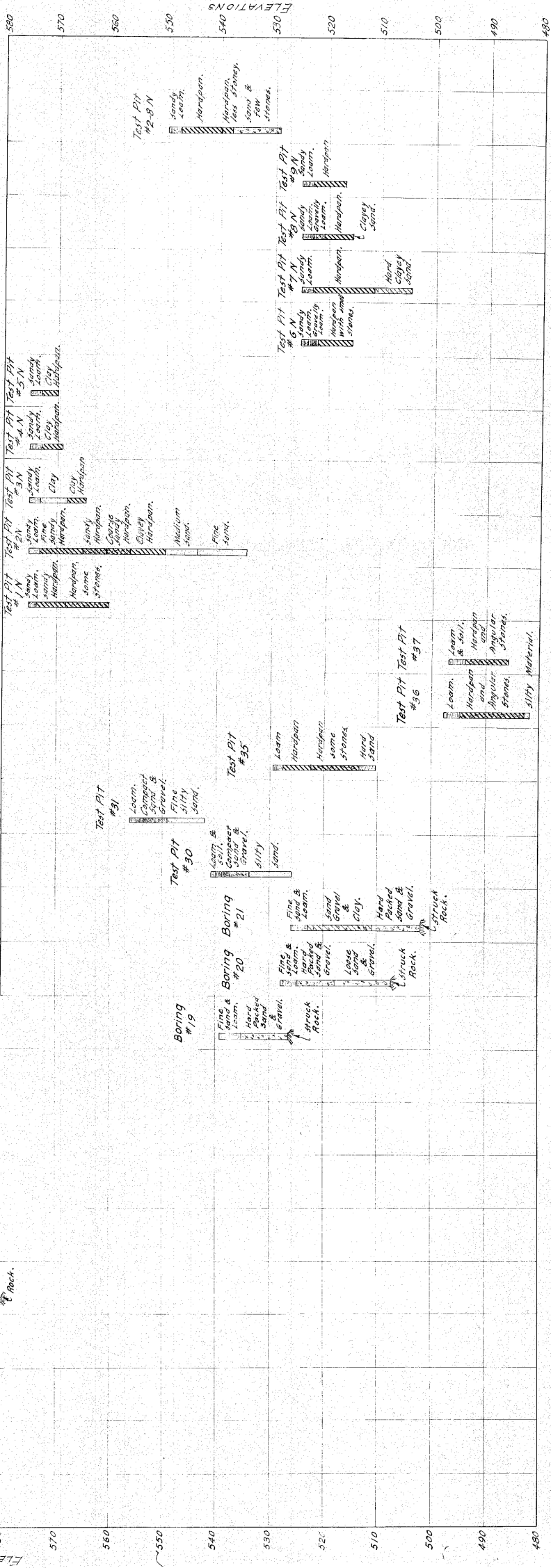


<u>Category</u>	<u>Index</u>
City/Town	Granville



SOUTH BANK

BETWEEN BROOKS



NORTH BANK

Notes

For other data on borings and test pits see sheet B.
All elevations refer to a base which is approximately Mean Sea Level.
Borings were made either by the core or the wash method, in the usual manner and with reasonable care. Their locations, depths and the character of material apparently encountered have been recorded in good faith.
Samples of the materials obtained from the borings have been preserved and labeled, and together with the records may be examined.
There is no expressed or implied agreement that the character of the material has been correctly indicated. Bidders should take into account the possibility that conditions affecting the cost or quantities of the work to be done may differ from those indicated.
Rock struck may be either a boulder or ledge.

BOARD OF PUBLIC WORKS WESTFIELD, MASS.	
WATER SUPPLY GRANVILLE STORAGE	
DATA FROM BORINGS AND TEST PITS	
Vertical Scale 1" = 10' 0"	December 1926
FAY, SPURDICK & THORNDIKE, CONSULTING ENGINEERS, BOSTON	
DES. H.L.K.	TR. H.L.K.
CHKD. J. Williams	FILE Wg-1
APPROVED C. A. Fawcett	PLAN NO. 50

Description of Plan Group:

Cobble Mountain Reservoir Diversion Tunnels - Contract Number 10

Date of Plan: 1927
Date Plan Approved: 1927
Highway Book #: ch17
Highway Page #: 035
Commissioners Reference Book #: 22
Commissioners Reference Page #: 166



Public Notes:

See also: Dams (Blandford) - "Cobble Mountain Dam" - D02006.

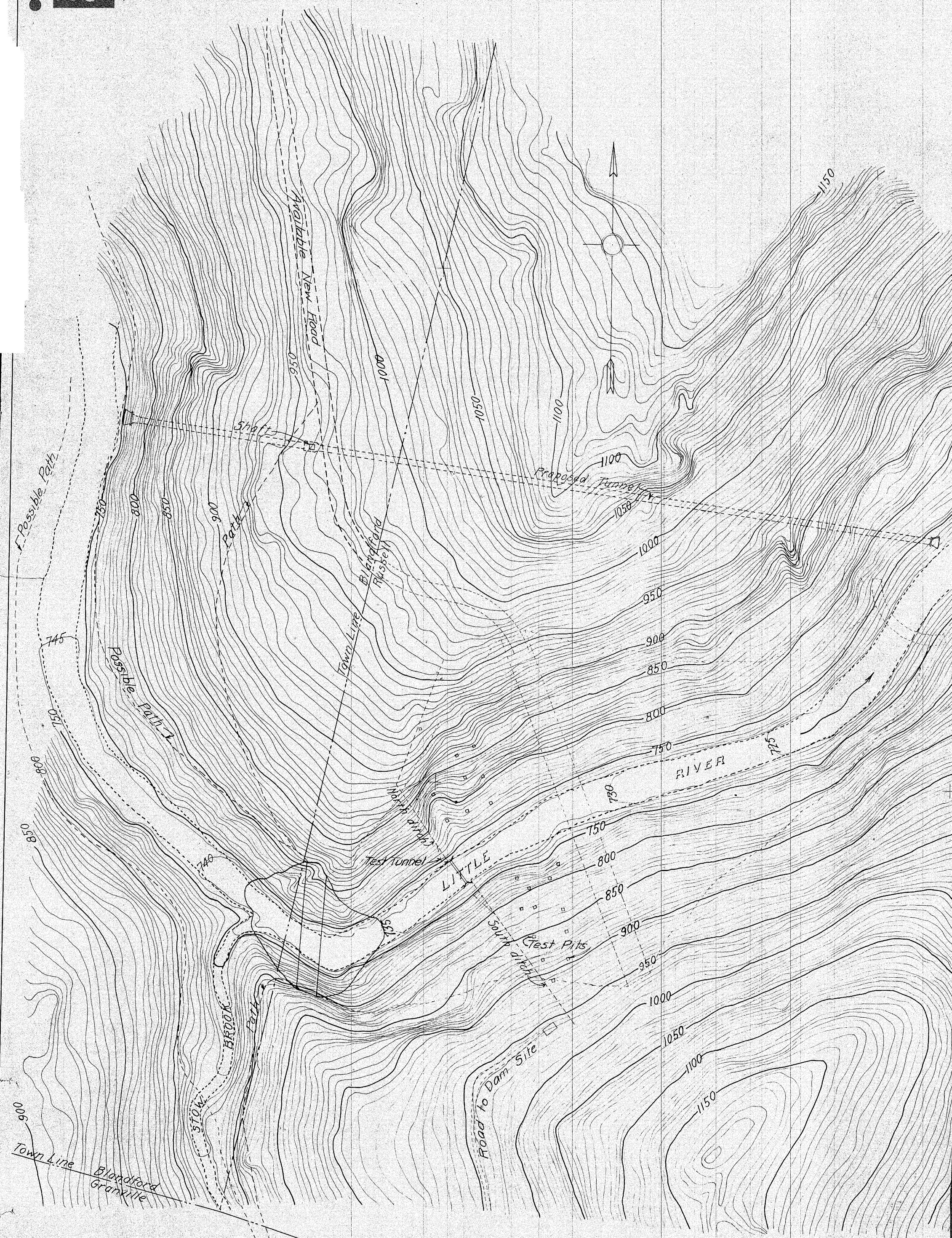
Plan Original Book and Page: ch17035

Name of specific Plan:

**Cobble Mountain Reservoir Diversion Tunnels - Contract
Number 10**



Category	Index
City/Town	Russell
Water	Cobble Mountain Reservoir
Water	Little River Supply



PLAN OF TUNNEL

SCALE 100 0 100 200 300 FEET

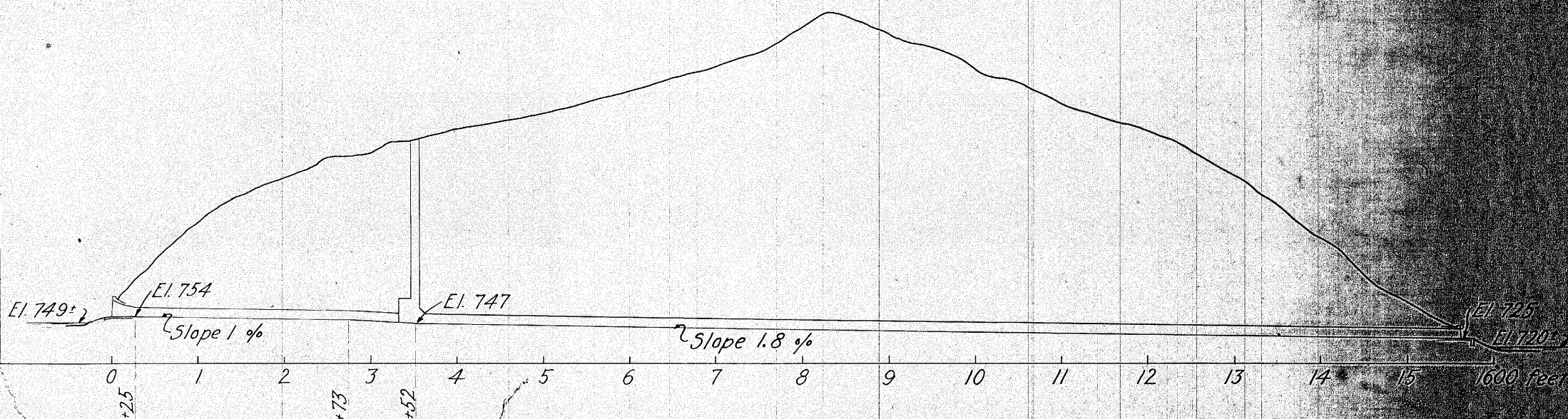
Plan Original Book and Page: ch17036

Name of specific Plan:

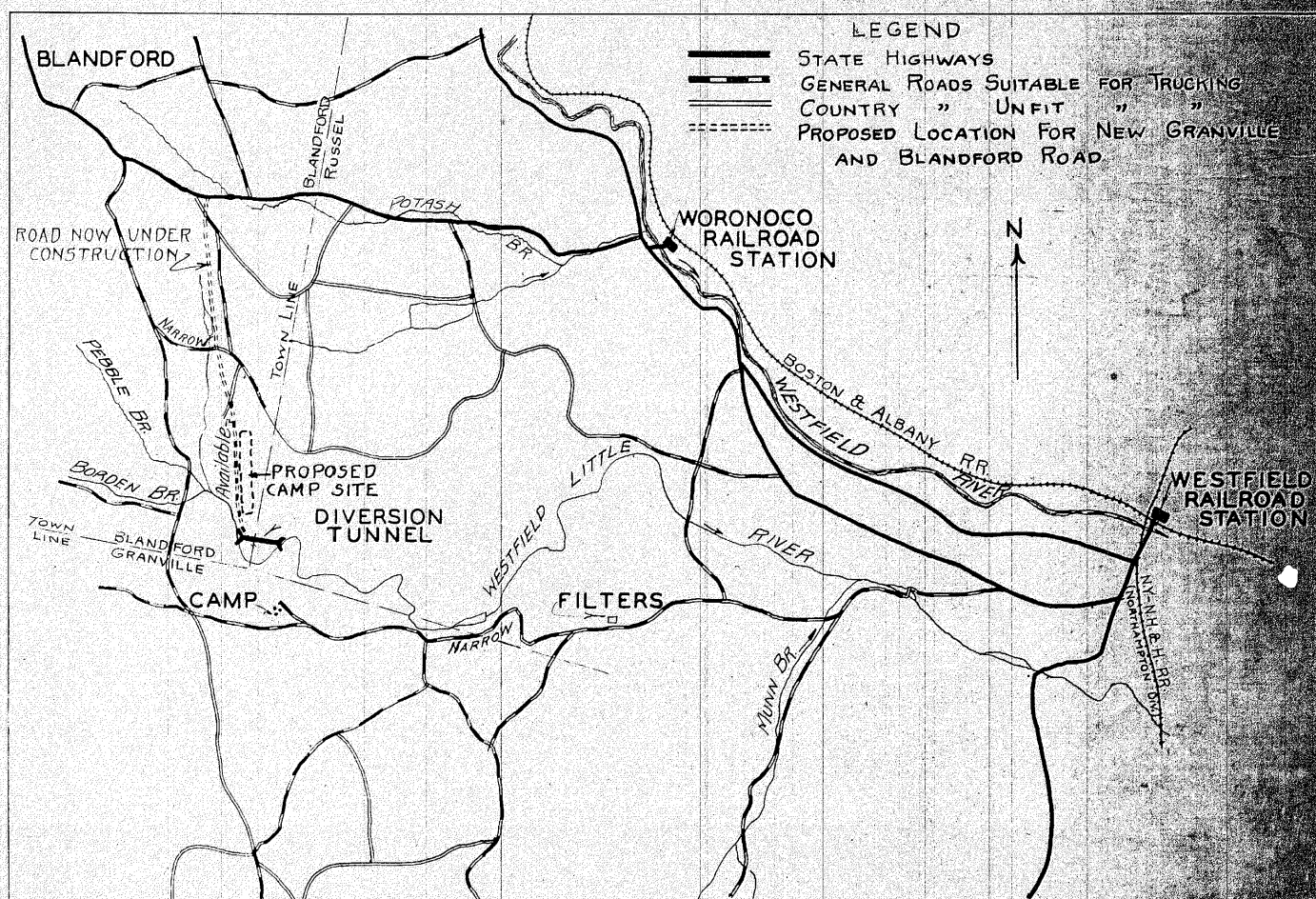
**Springfield Water Works - Little River Supply - Contract No
10 - Diversion Tunnel - Tunnel Sections**



Category	Index
Water	Cobble Mountain Reservoir
Water	Little River Supply



PROFILE OF TUNNEL



LOCATION PLAN

SCALE: 1 1/2 0 1 2 3 MILES

Approved July 27, 1927 - As set forth in the preliminary report of County Commissioners of Hampden County.

George A. Coffey
John Hall
John S. Hanfield

County Commissioners of the County of Hampden.

Commonwealth of Massachusetts
 Hampden, ss:

Filed - June 29, 1927

Attest:

Charles M. Galtman
 Clerk

See County Commissioners
 Book 22 Page 166

County Commissioners
 Record Book #22
 Page 166

BOARD OF WATER COMMISSIONERS,

Edwin A. Blodgett

George S. Fenn

John G. Parker

SPRINGFIELD WATER WORKS

LITTLE RIVER SUPPLY

CONTRACT NO. 10

DIVERSION TUNNEL

LOCATION PLAN AND PROFILE

SCALES AS INDICATED

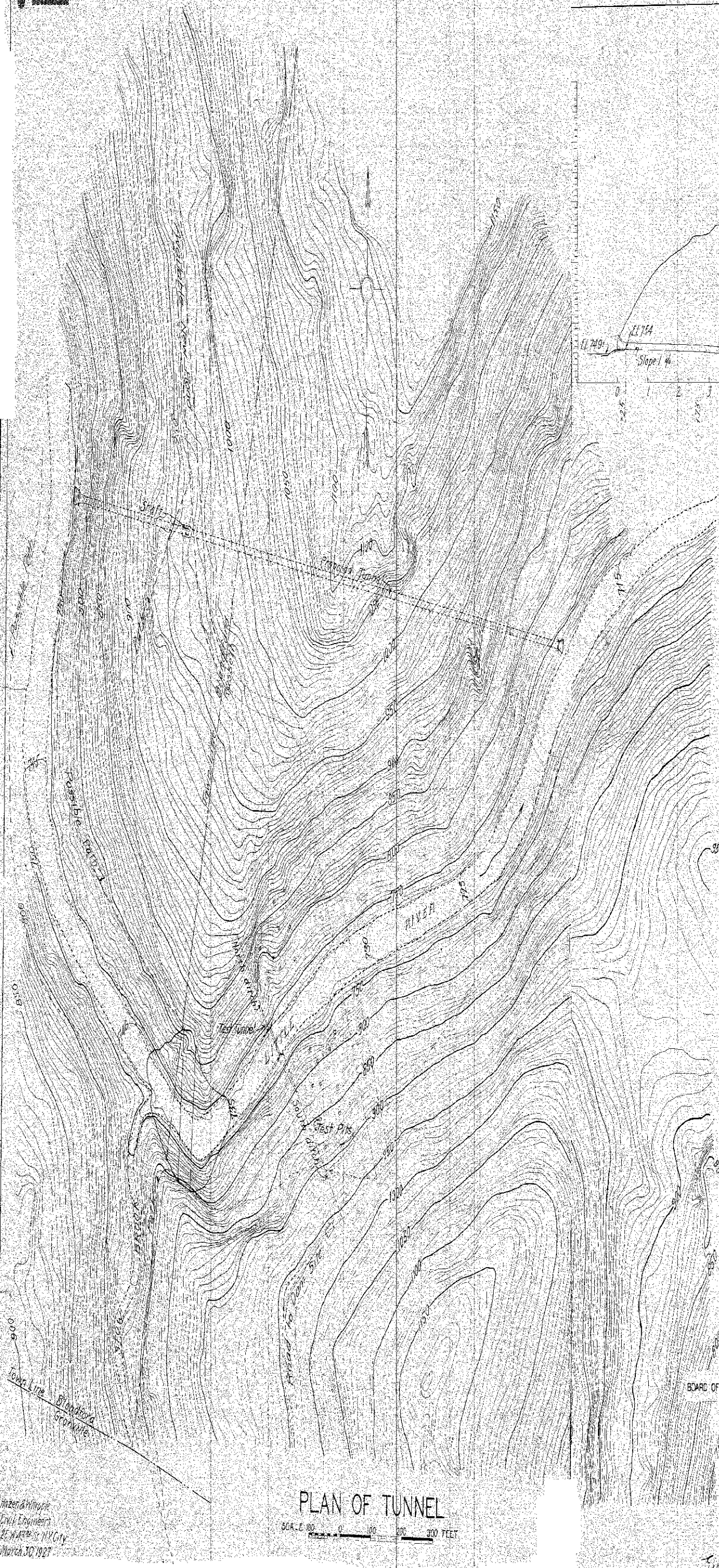
Elbert E. Loehridge

CHIEF ENGINEER

Allen Hagen

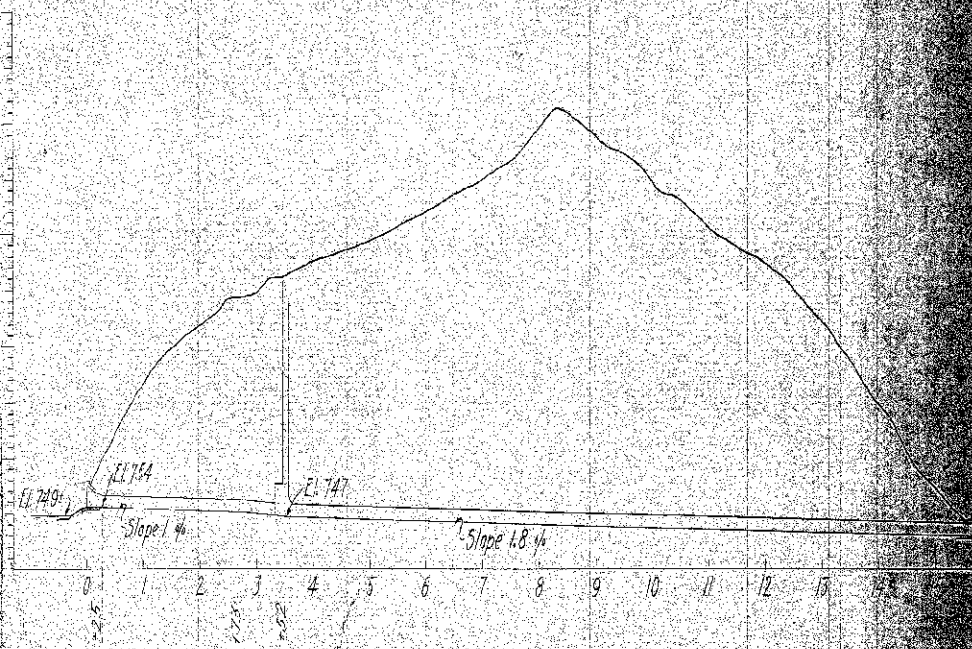
CONSULTING ENGINEER

June 7, 1927

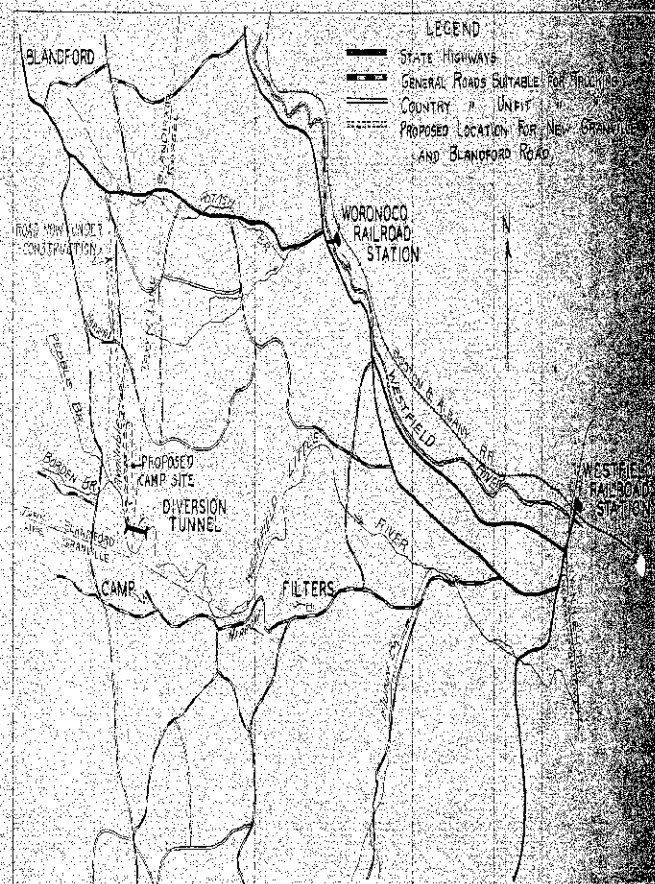


PLAN OF TUNNEL

SCALE 1" = 100 FEET



PROFILE OF TUNNEL



LOCATION PLAN

SCALE 1" = 2 MILES

See County Commissioners Book 22 Page 166

BOARD OF WATER COMMISSIONERS,

Edmund A. Blodgett

Walter J. Brown

Thomas S. Sawyer

SPRINGFIELD WATER WORKS

LITTLE RIVER SUPPLY

CONTRACT NO. 10

DIVERSION TUNNEL

LOCATION PLAN AND PROFILE

SCALES AS INDICATED

Frank C. Keeney

CHIEF ENGINEER

Albert H. ...

CONSULTING ENGINEER

June 7, 1927

W. H. ...
22 W. 43rd St. N.Y.C.
March 30, 1927

Plan Original Book and Page: ch17037

Name of specific Plan:

**Springfield Water Works - Little River Supply - Contract No
10 - Diversion Tunnel - Tunnel Sections**



Category	Index
Water	Little River Supply
Water	Cobble Mountain Reservoir

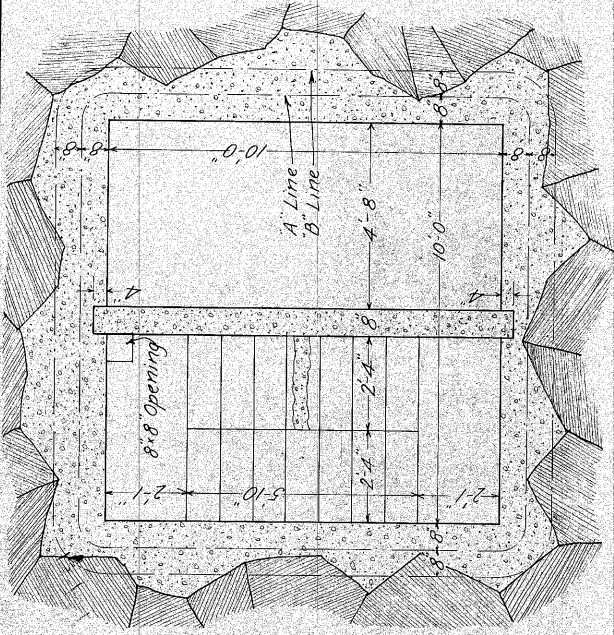
Plan Original Book and Page: **ch17038**

Name of specific Plan:

**Springfield Water Works - Little River Supply - Contract No
10 - Diversion Tunnel - Tunnel Sections**

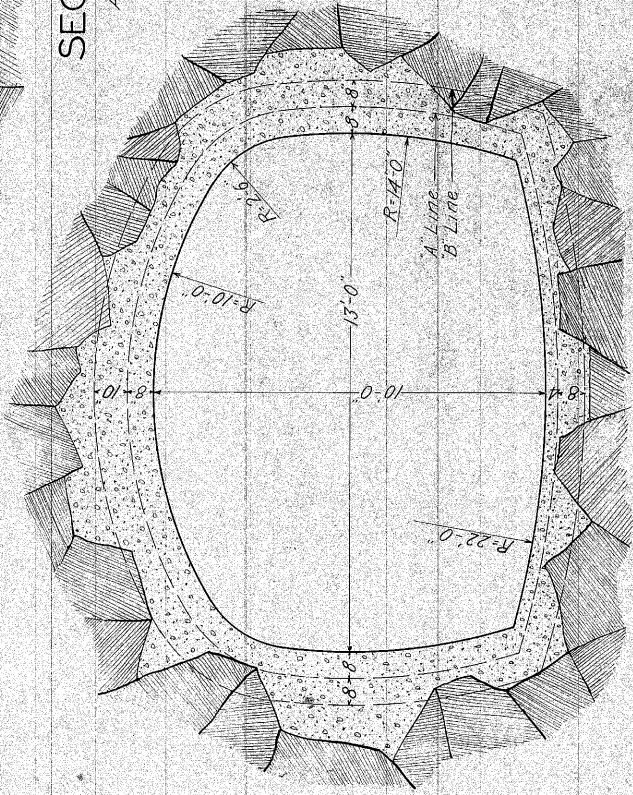


Category	Index
	Little River Supply
	Cobble Mountain Reservoir



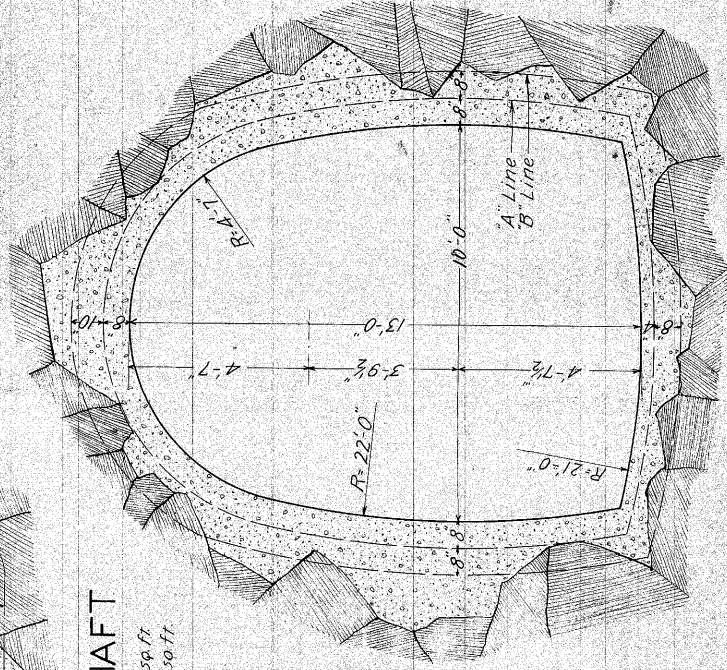
SECTION OF SHAFT

Area inside "A" line = 125 sq. ft.
"B" " " = 160 sq. ft.



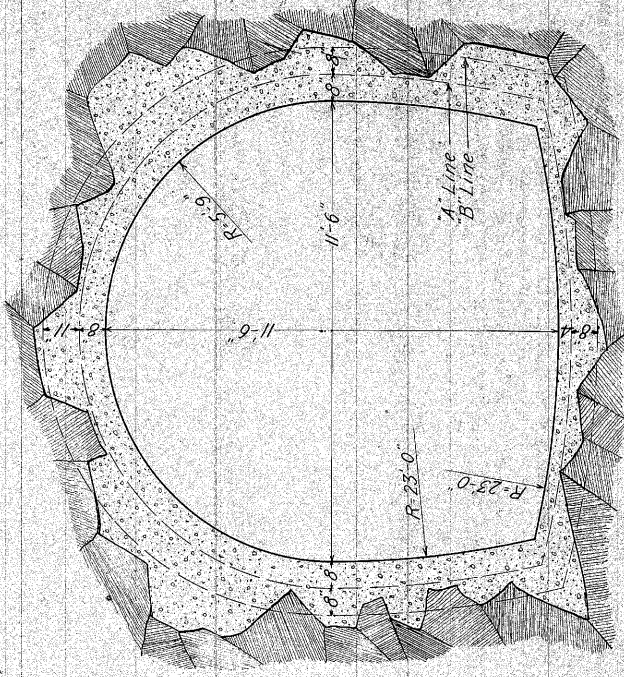
TYPE 1

Area inside "A" Line = 137 sq. ft.
"B" " " = 170 sq. ft.



TYPE 2

Area inside "A" Line = 138 sq. ft.
"B" " " = 170 sq. ft.



TYPE 3

Area inside "A" Line = 137 sq. ft.
"B" " " = 170 sq. ft.

BOARD OF WATER COMMISSIONERS

Edmund J. Whipple
Walter S. Rogers
Franklin C. Carter

NOTE
These sections are alternatives
of equal area and capacity.
The contractor may make his choice.

SPRINGFIELD WATER WORKS
LITTLE RIVER SUPPLY
CONTRACT NO. 10
DIVERSION TUNNEL
TUNNEL SECTIONS

SCALE 0 2 4 6 8 FEET

Albert G. Lockridge
CHIEF ENGINEER

William H. Whipple
CONSULTING ENGINEER

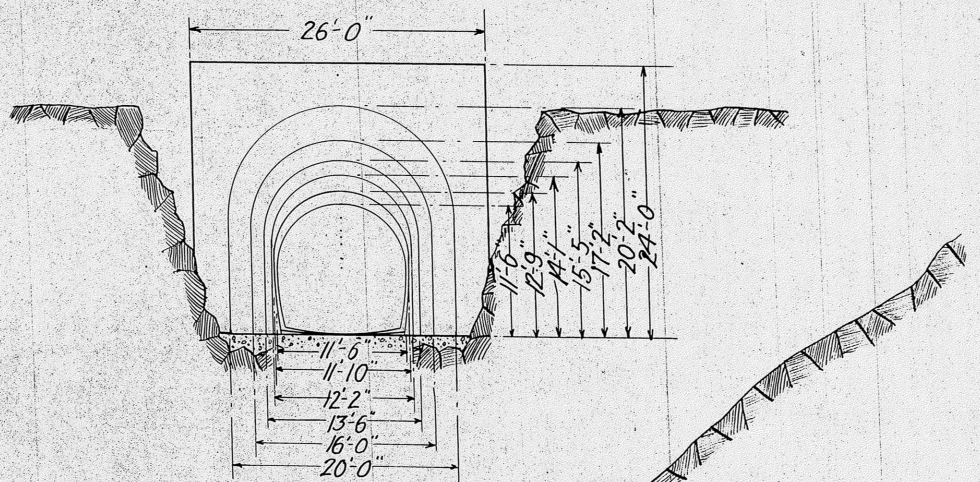
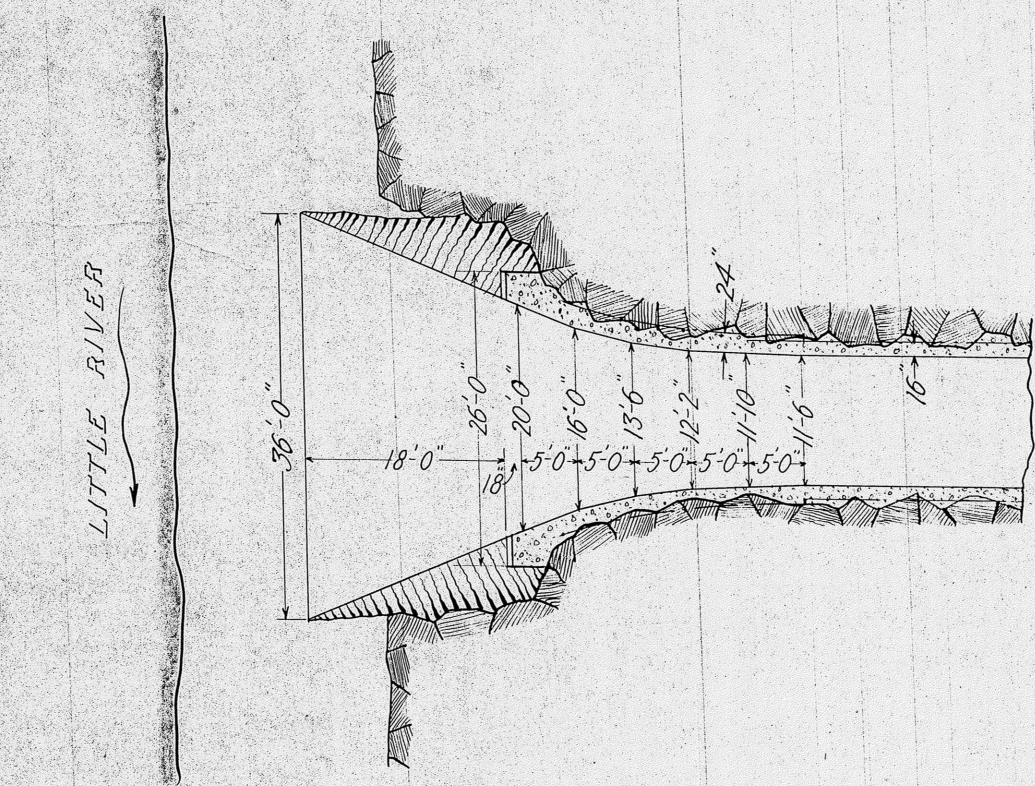
Plan Original Book and Page: ch17039

Name of specific Plan:

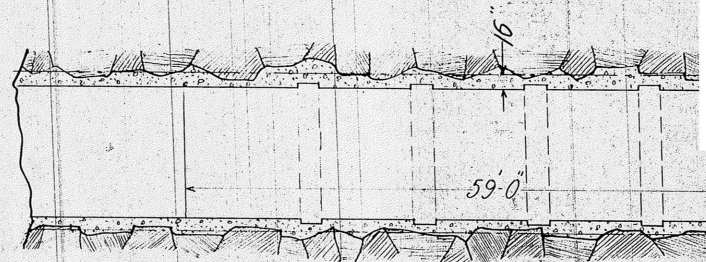
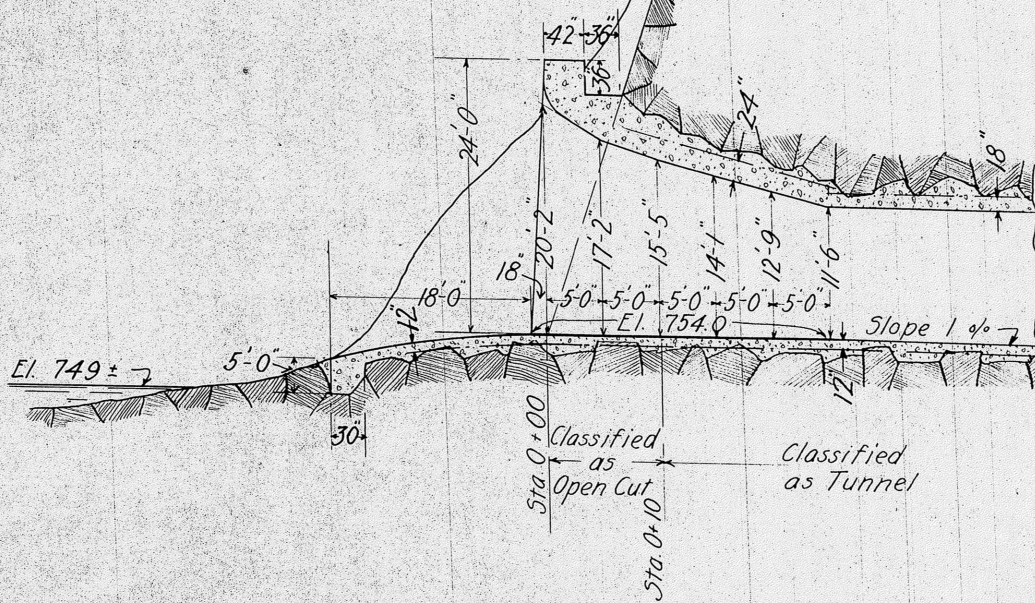
**Springfield Water Works - Little River Supply - Contract No
10 - Diversion Tunnel - Tunnel Sections**



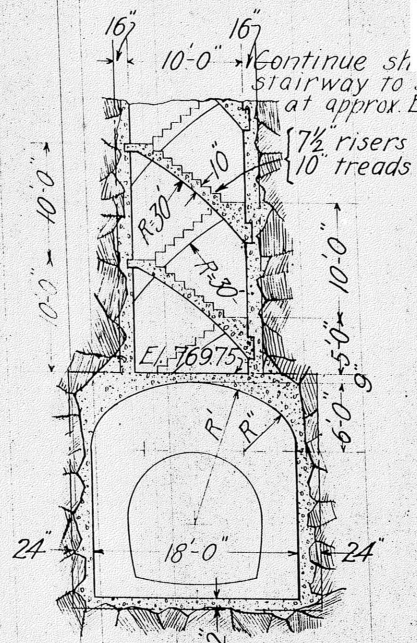
Category	Index
Water	Cobble Mountain Reservoir
Water	Little River Supply



ELEVATION OF ENTRANCE

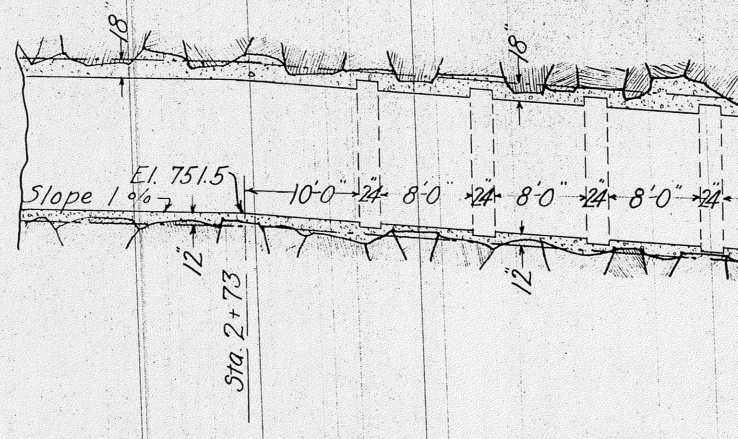


PLAN

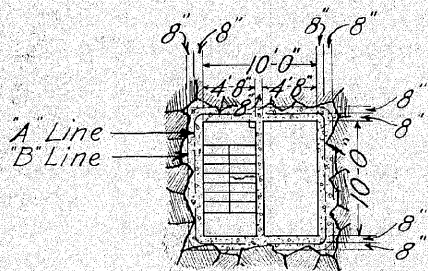


SECTION A-A

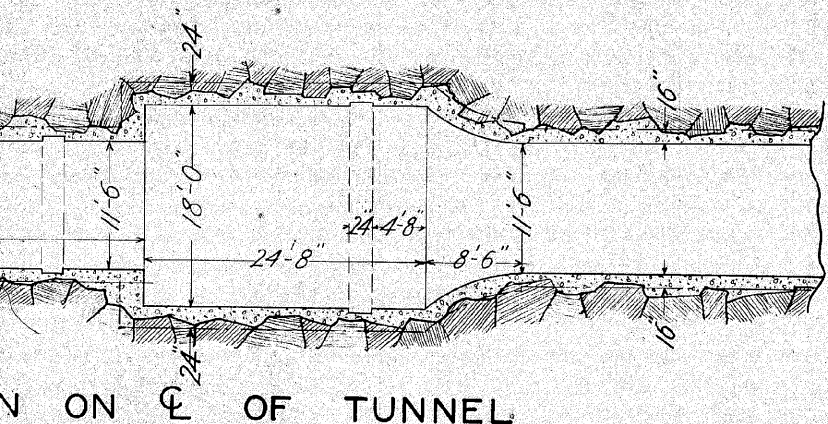
NOTE: Dashed lines indicate ground to be left 6" deep in concrete lining



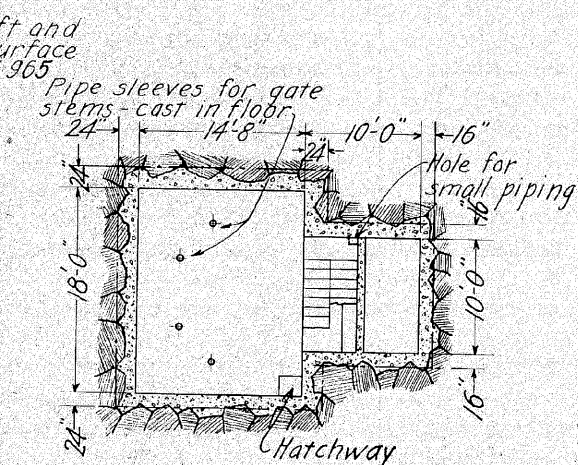
SECTION



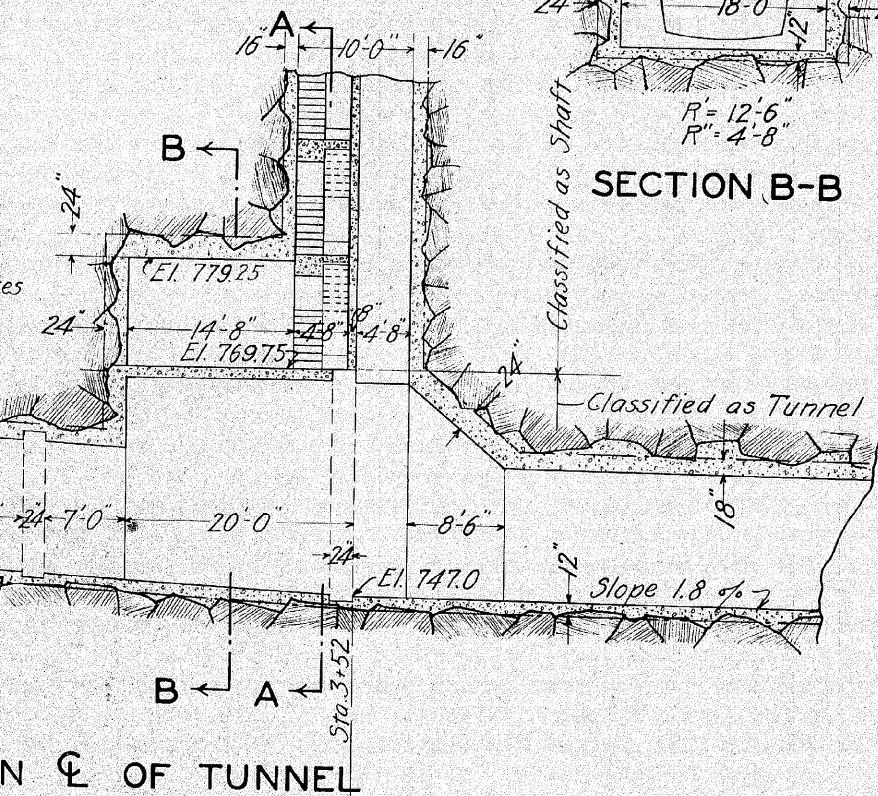
TYPICAL SHAFT SECTION
(For detail, see sheet No. 2)



ON C OF TUNNEL



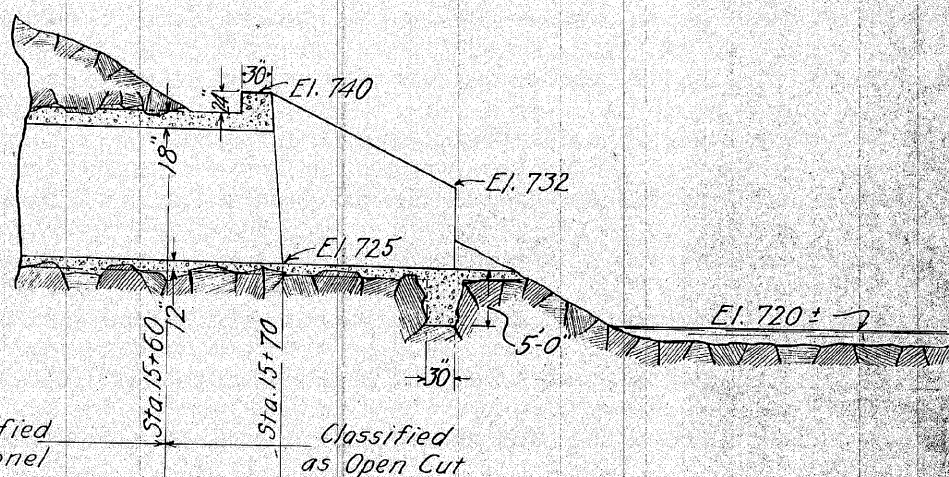
PLAN ABOVE EL. 769.75



SECTION B-B

ON C OF TUNNEL

Classified as Shaft
Classified as Tunnel



BOARD OF WATER COMMISSIONERS,

Edwin H. Blodgett
George D. Fenn
Ferdie G. Parker

Albert E. Rockledge
CHIEF ENGINEER

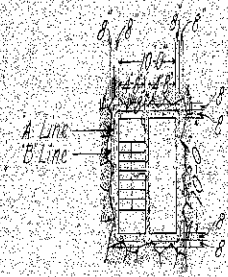
Allen Hogue
CONSULTING ENGINEER

June 7, 1927

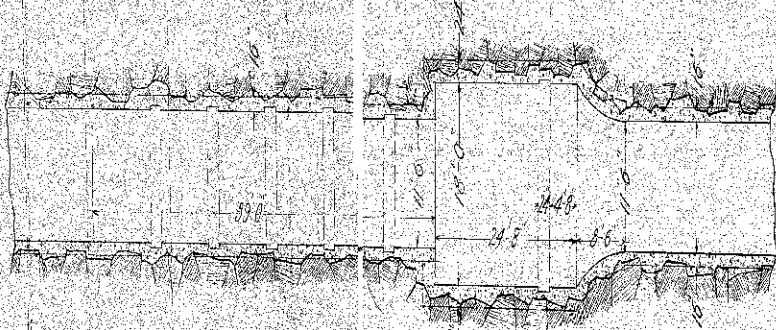
SPRINGFIELD WATER WORKS
LITTLE RIVER SUPPLY
CONTRACT NO. 10
DIVERSION TUNNEL
DETAILS

SCALE 10 0 10 20 30 FEET

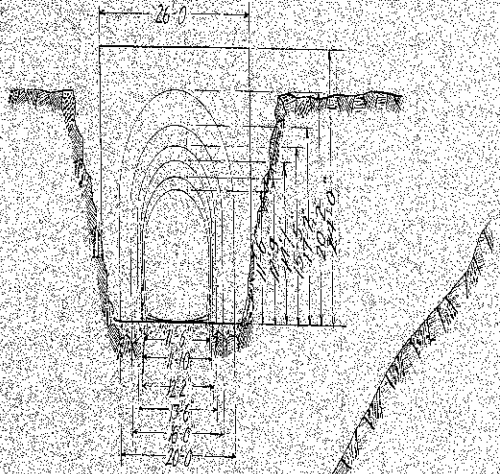
TYPICAL SHAFT SECTION
(For detail see sheet No. 2)



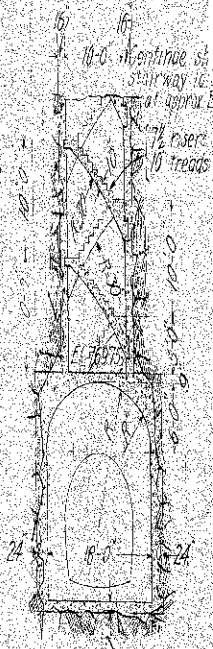
PLAN ON C OF TUNNEL



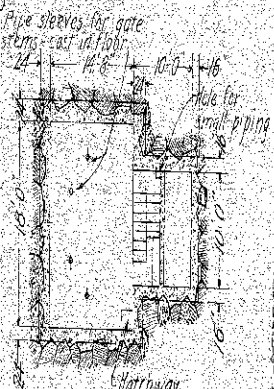
ELEVATION OF ENTRANCE



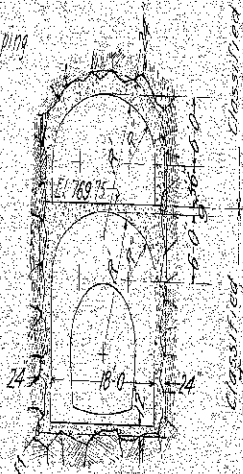
SECTION A-A



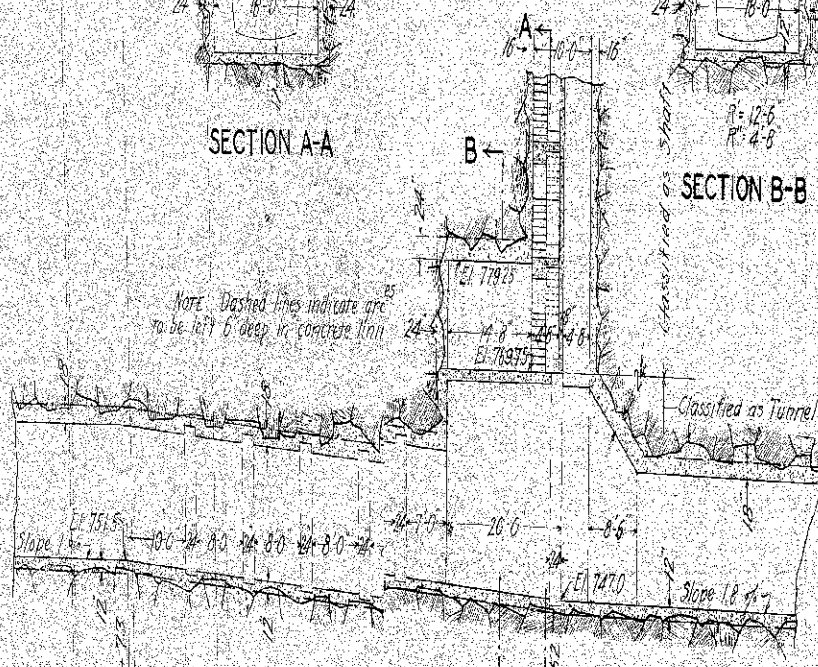
PLAN ABOVE EL. 769.75



SECTION B-B



SECTION N C OF TUNNEL



Classified as Tunnel

Classified as Open Cut

BOARD OF WATER COMMISSIONERS,

John P. Blackwell
James J. McMan
Todd & Parker

SPRINGFIELD WATER WORKS
LITTLE RIVER SUPPLY
CONTRACT NO. 10
DIVERSION TUNNEL
DETAILS

John C. Fiedler
CHIEF ENGINEER

Allen H. Hume
CONSULTING ENGINEER

SCALE 10 0 10 20 30 FEET

June 7, 1927

W. H. & W. H. Hume
Civil Engineers
21 W. 43rd St. N.Y.C.
March 30, 1927

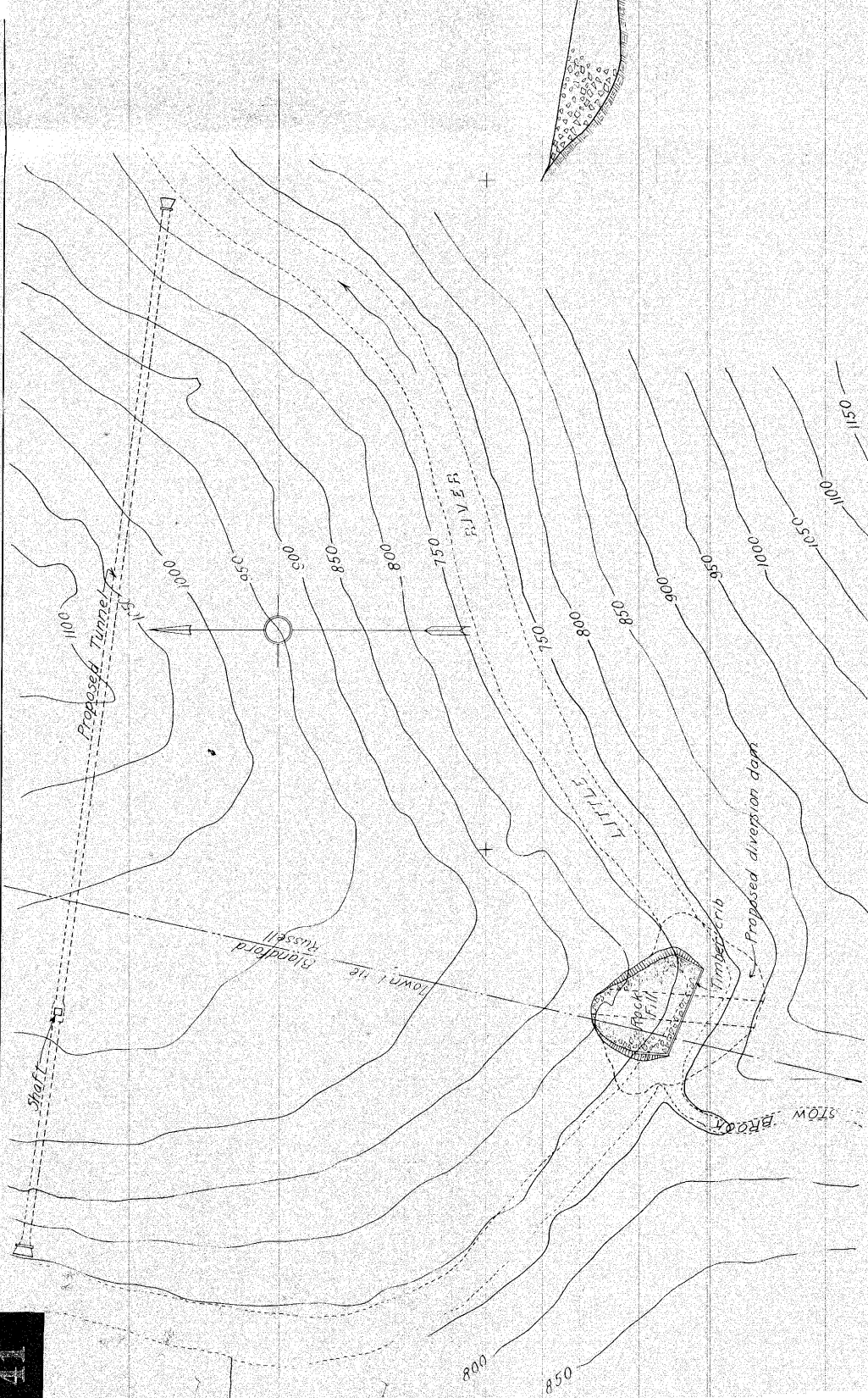
Plan Original Book and Page: ch17041

Name of specific Plan:

**Springfield Water Works - Little River Supply - Contract No
10 - Diversion Tunnel - Tunnel Sections**

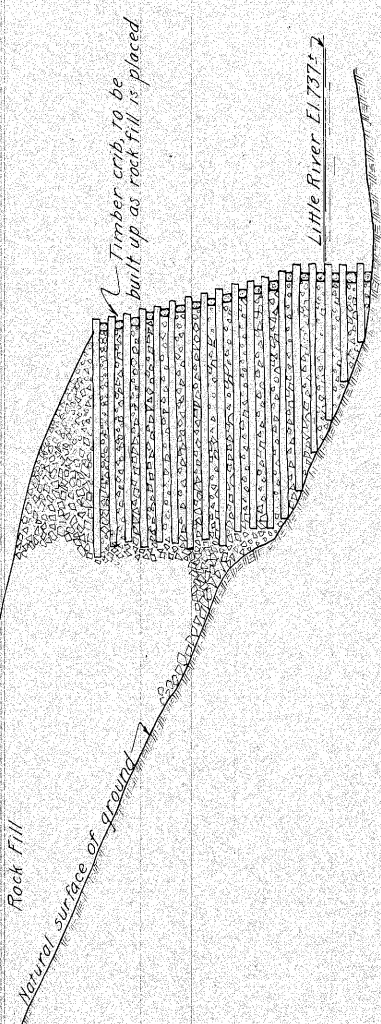


Category	Index
Water	Cobble Mountain Reservoir
Water	Little River Supply



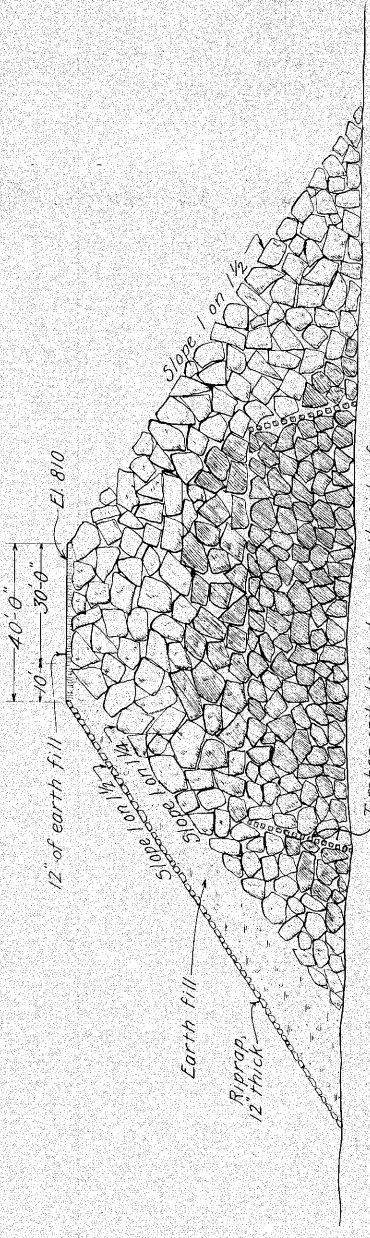
LOCATION PLAN

SCALE 0 50 100 150 200 250 300 FEET



SECTION OF CRIB

SCALE 0 10 20 30 FEET



TYPICAL SECTION OF DAM

SCALE 0 20 40 50 FEET

BOARD OF WATER COMMISSIONERS,
William H. Block
John D. Brown
Jordan Co. Carter

SPRINGFIELD WATER WORKS
LITTLE RIVER SUPPLY
CONTRACT NO. 10
DIVERSION DAM
LOCATION PLAN AND DETAILS

SCALES AS INDICATED

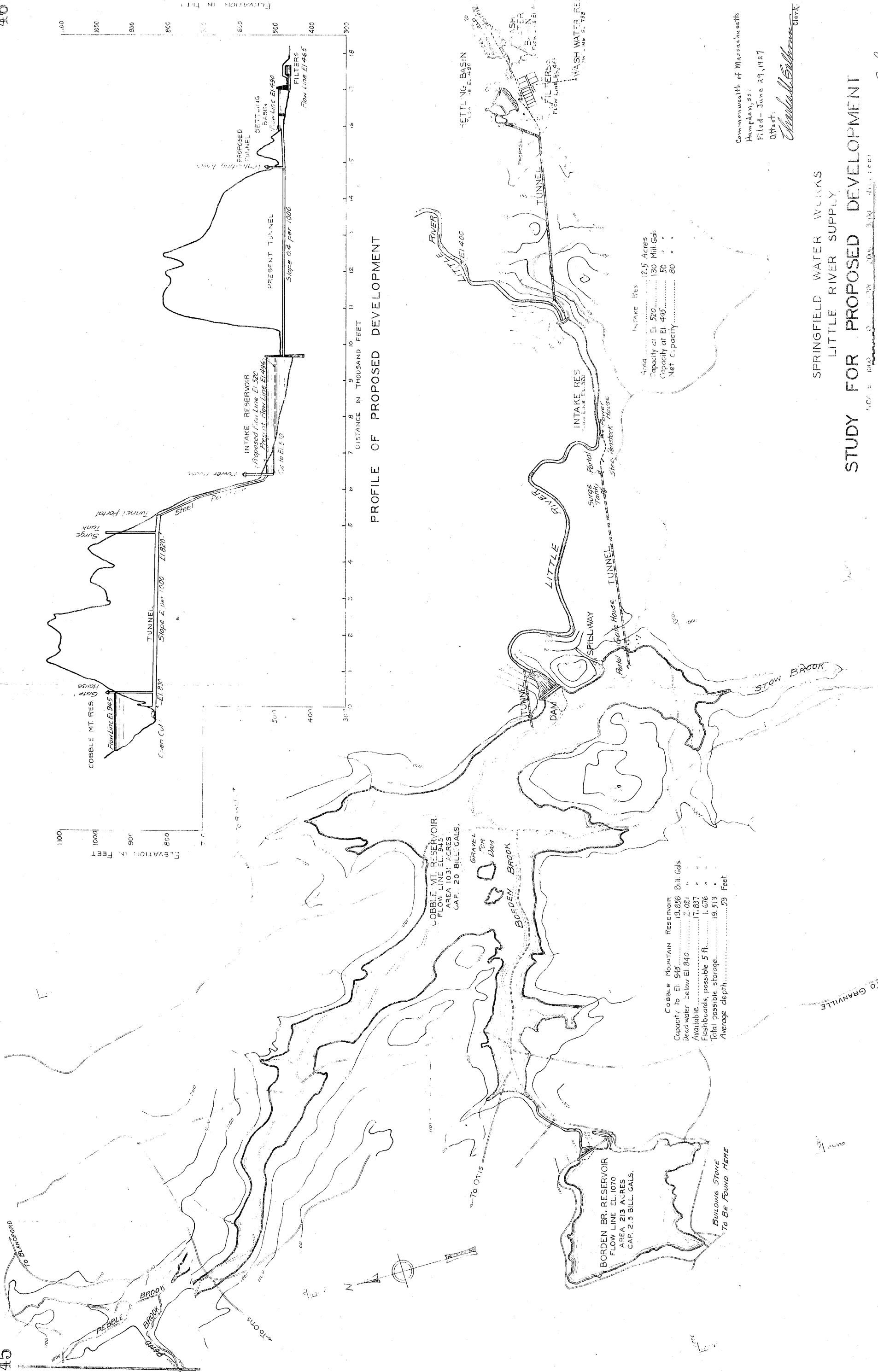
Plan Original Book and Page: **ch17045**

Name of specific Plan:

Springfield Water Works - Little River Supply - Cobble Mountain Reservoir - Study for Proposed Development



Category	Index
City/Town	Russell
Dam	Cobble Mountain Reservoir D
Water	Cobble Mountain Reservoir
Water	Little River
Water	Pebble Brook
Water	Borden Brook Reservoir
Water	Pond Brook



Hazen & Whipple
Civil Engineers
25 W 43rd St. N.Y. City
Oct. 8, 1926

See County Commissioners
Book 22 Page 167

County Commission Record
Book #22 Page #167

4-7c

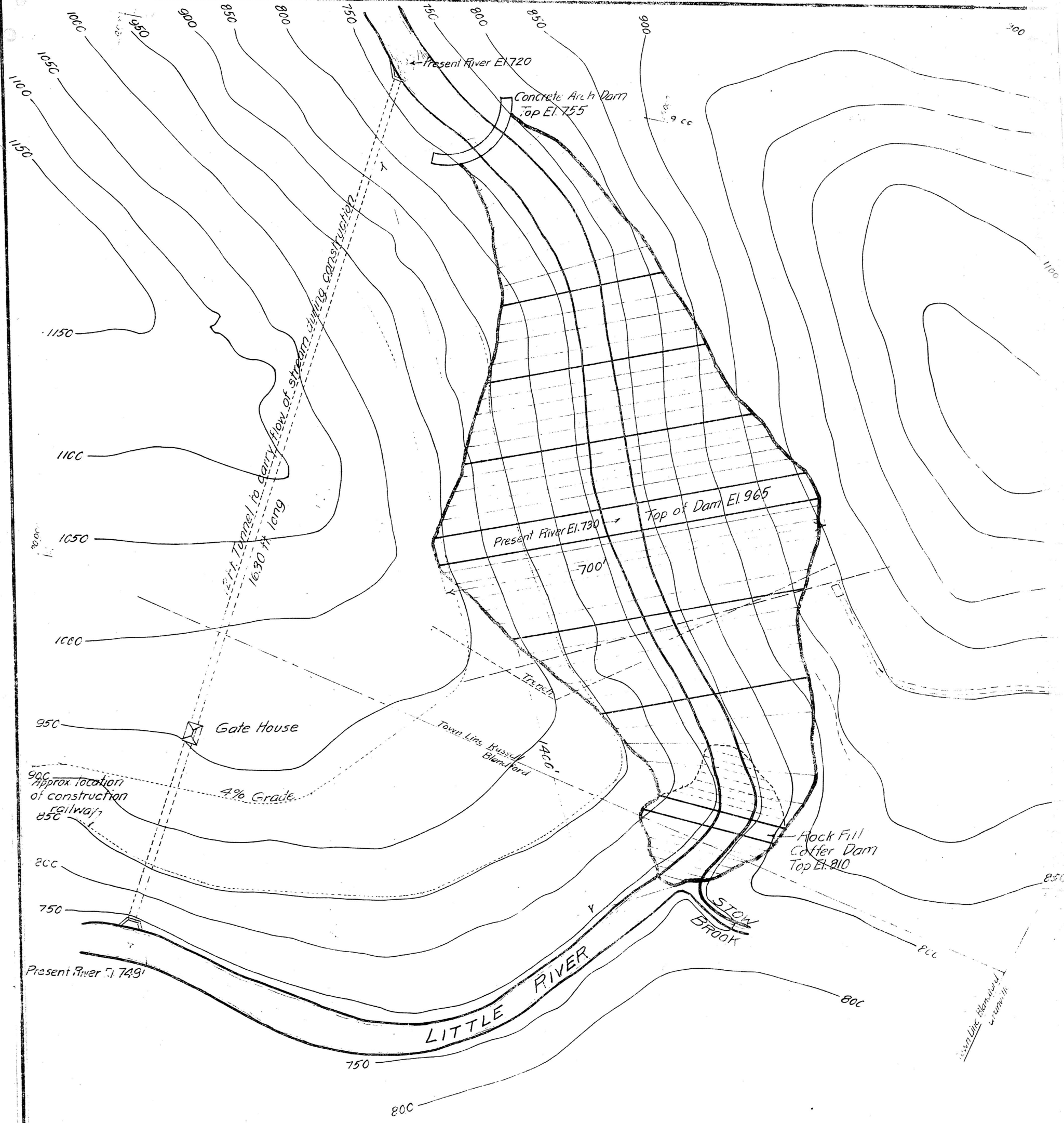
Plan Original Book and Page: ch17047

Name of specific Plan:

Springfield Water Works - Little River Supply - Cobble Mountain Reservoir - Study for Earth Dam

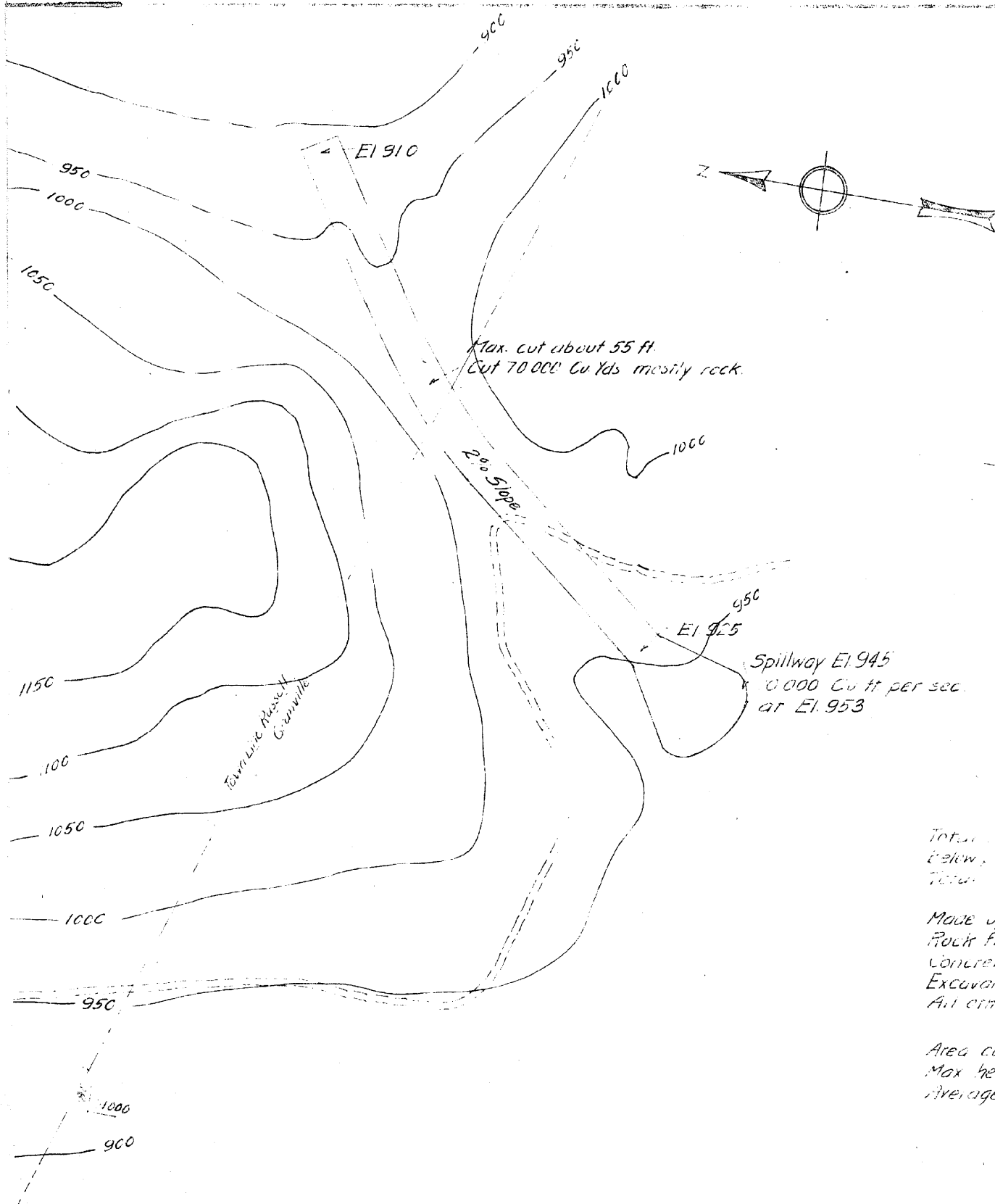


Category	Index
City/Town	Russell
Water	Little River
Water	Stow Brook
Water	Cobble Mountain Reservoir



PLAN
SCALE: 1"=100'

- LEGEND
- A- Clay puddle - 0.0. m. or finer in soil
 - B- Sand and gravel deposited from running
 - C- Original dumping ground - very fine
 - D- Rock fill on face - rather broken pieces
 - E- Cut off trench on side and bottom
 - F- Soil fill on face to make it hold



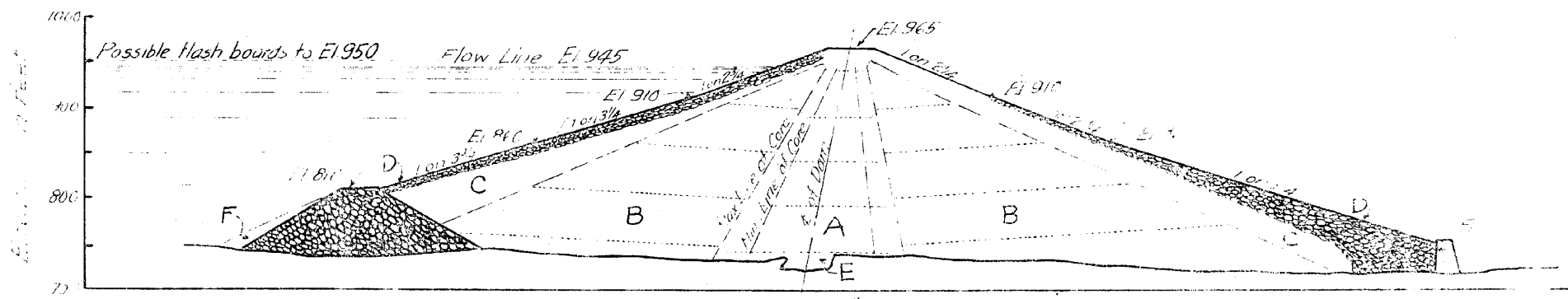
APPROXIMATE QUANTITIES

	CUBIC YARDS
Total cut above crest surface	1720 000
Below crest surface - average 4 ft cut	80 000
Total cut	1800 000

Made up of

Rock fill in coffer dam and riprap	250 000
Concrete	100 000
Excavation on site and going to dam	40 000
All other material	150 000

Area covered by dam 318 200 sq ft or 7.3 acres
Max height, bed of stream to flow line 125 ft
Average depth of fill $(1800 000 \div 27) = 66 666 \div 7.3 = 91$ ft



TYPICAL SECTION OF DAM

central pool
water on slope fully consolidated
out but some remaining not fully consolidated
schist or boulders
during construction

SPRINGFIELD WATER WORKS
LITTLE RIVER SUPPLY
COBBLE MOUNTAIN RESERVOIR
STUDY FOR EARTH DAM

SCALES AS INDICATED

Supersedes No. 265

4059-6-5

26123
252

SCALE: 1"=100'

- A - Clay puddle - 0.0. fine or finer silt control pool
- B - Sand and gravel deposits from water on slope fully consolidated
- C - Original dumping ground, all out but some remaining not fully consolidated
- D - Rock fill on face, either broken schist or boulders
- E - Cut off trench on side, not to be
- F - Soil fill on face to maintain hole during construction

Horz. Scale: 1" = 100'

TYPICAL SECTION OF DAM

SPRINGFIELD WATER WORKS
LITTLE RIVER SUPPLY
COBBLE MOUNTAIN RESERVOIR
STUDY FOR EARTH DAM

SCALES AS INDICATED

Siemens Nr. 265

4-059-6-5

Hazen & Whipple
Civil Engineers
25 W 43rd St NYC
Oct. 4, 1926

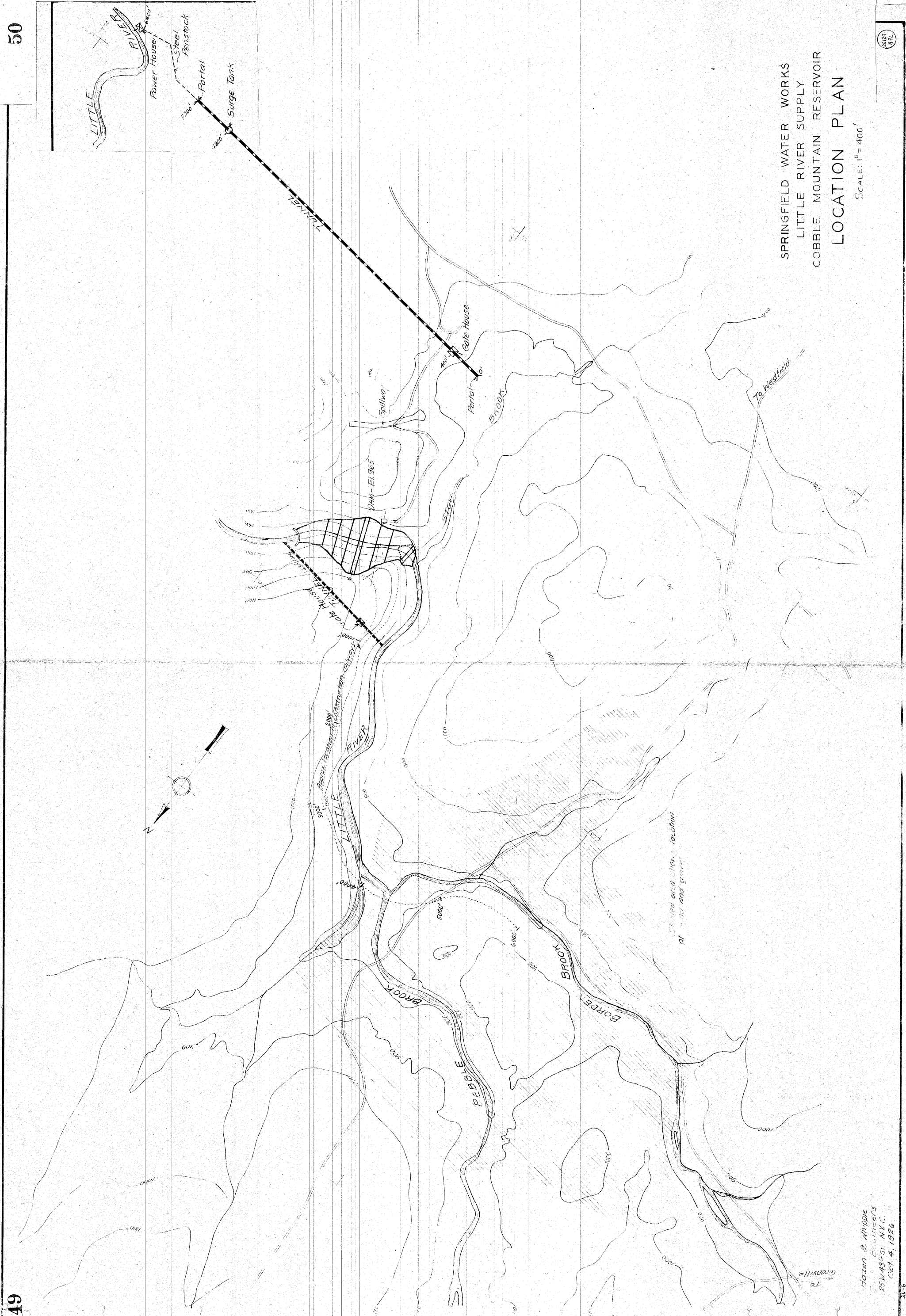
Plan Original Book and Page: ch17049

Name of specific Plan:

Springfield Water Works - Little River Supply - Cobble Mountain Reservoir - Location Plan



Category	Index
City/Town	Russell
Water	Cobble Mountain Reservoir
Water	Stow Brook
Water	Little River
Water	Borden Brook
Water	Pebble Brook



SPRINGFIELD WATER WORKS
LITTLE RIVER SUPPLY
COBBLE MOUNTAIN RESERVOIR
LOCATION PLAN

SCALE: 1" = 400'

Hazen & Whipple
Engineers
25 W 49th St. N.Y.C.
Oct 4, 1926

4056-G-5

Description of Plan Group:

Apremont Way - Westfield line northeasterly

Date of Plan: 1929

Date Plan Approved: 1929

Highway Book #: ch17

Highway Page #: 051

Commissioners Reference Book #: 19

Commissioners Reference Page #: 179

Public Notes:



Plan Original Book and Page: ch17051

Name of specific Plan:

Apremont Way - Westfield line northeasterly



Category	Index
City/Town	Holyoke
City/Town	Westfield
Person	Griffin, Katherine E
Person	Wolohan, Delia
Person	Boardway, Mary
Streets	Apremont Way
Streets	Rock Valley Road

Plan Original Book and Page: ch17052

Name of specific Plan:

Plan of Road in City of Holyoke, Mass



Category	Index
City/Town	Holyoke
Person	Gilhooley, James
Person	Gilhooley, Ellen

Commonwealth of Massachusetts.
Hampden, ss. October 30, 1929
On the petition of the Mayor of Holyoke for layout,
relocation, alteration, widening and specific
repairs on Weyfield Road in the City of Holyoke.
This plan is filed with the location report
and made a part thereof.

PLAN
IN T

H O L
HAMPDEN

LAID

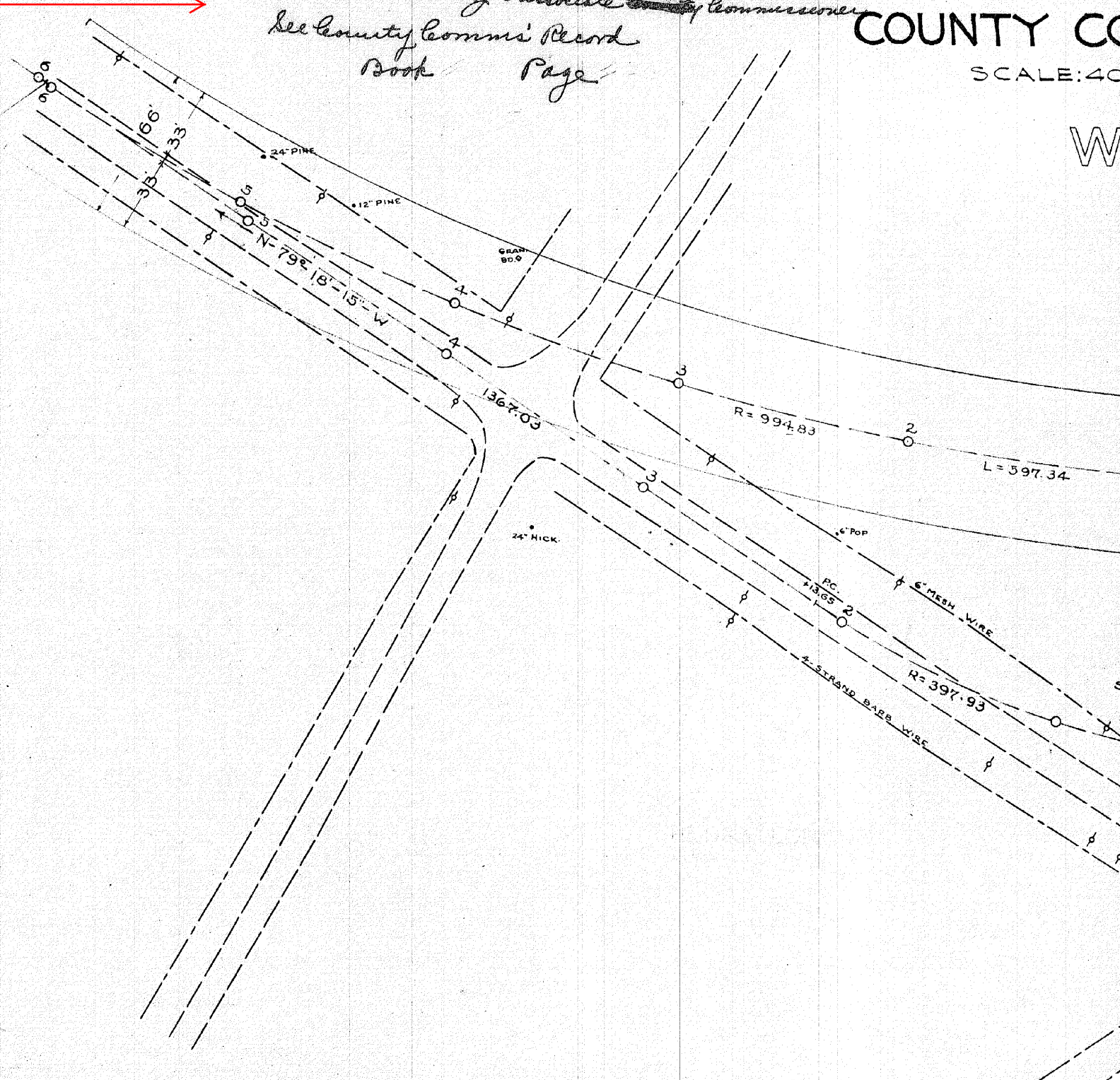
COUNTY CO

SCALE: 40

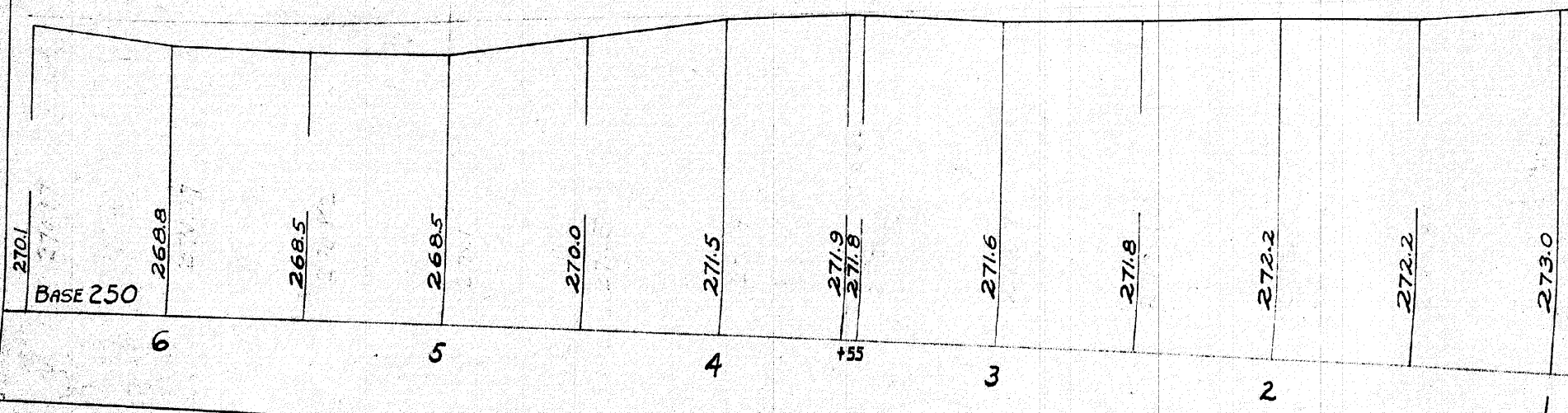
W

See County
Commissioners
Book 19 Page 179

8+03.65
3+97.34 P



TRACED FROM PLAN 303 G BY A.F. BRADY MAY 7, 1929
TRACED FROM PROFILE
SCALES: HOR. 1 IN = 40 FT. VERT. 1 IN = 8 FT.



PARCEL N^o 1
KATHERINE E. GRIFFIN
DELIA WOLOHAN
MARY BOARDWAY
Between sta 0+00+ and 6+44+
Area of Taking about 21,900 sq ft.

$\Delta = 66^{\circ}19'10''$
 $T = 650.00$

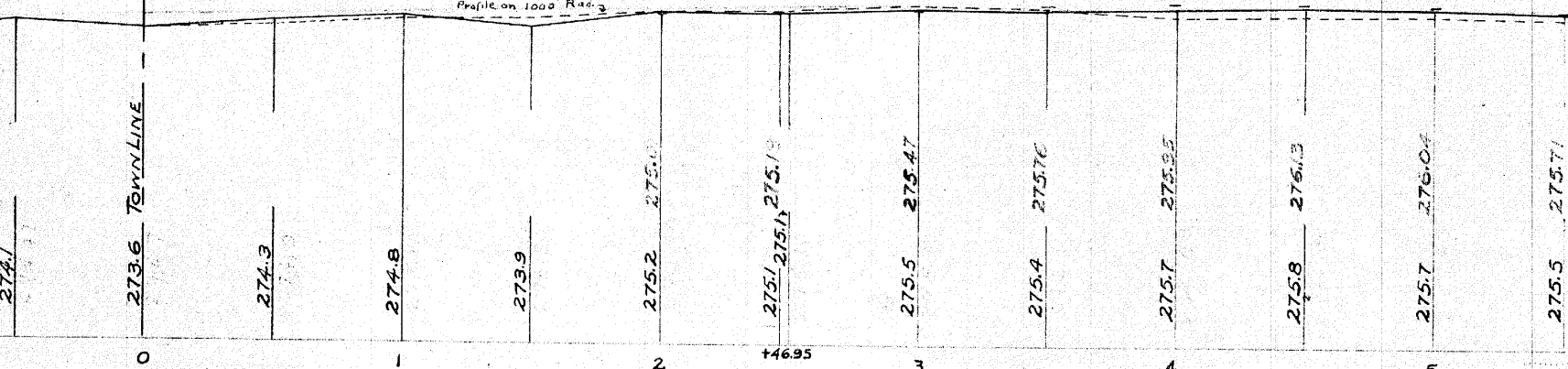
BEGINNING OF 1929 COUNTY LAYOUT.
 $R = 1017.07$ $L = 554.19$

$\Delta = 66^{\circ}19'10''$
 $T = 260.00$

HOLYOKE

BM~R.R. SPK ROOT 30" PINE~EL 276.12

Profile on 1000' Rad.



6+36.95
5+54.17 PT

Plan Original Book and Page: ch17053

Name of specific Plan:

Plan of Road in City of Holyoke, Mass



Category	Index
City/Town	Holyoke
Person	Bluemer, Hulda
Person	Oconnor, Daniel Jr.
Person	Pilleson, Paul A

KATHERINE E. GRIFFIN
DELIA WOLOHAN
MARY BOARDWAY

JAMES & ELLEN GILHOOLEY

PARCEL No 2
KATHERINE E. GRIFFIN
DELIA WOLOHAN
MARY BOARDWAY
Between sta. 10+95± and 12+73±
Area of Taking about 180 sq ft

PARCEL No 4
KATHERINE E. GRIFFIN
DELIA WOLOHAN
MARY BOARDWAY
Between sta. 14+51± and 23+00±
Area of Taking about 1860 sq ft

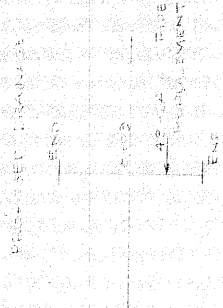
KATHERINE E. GRIFFIN
DELIA WOLOHAN
MARY BOARDWAY

JAMES & ELLEN GILHOOLEY

PARCEL No 3
JAMES AND ELLEN GILHOOLEY
Between sta. 10+95± and 28+32±
Area of Taking about 3890 sq ft.

HOLYOKE
ROCK VALLEY RD

NOT TO SCALE



B.M.-R.R. SPK-181 M. STA. 14+57.20' LT. EL.=277.39

Still House Pt.
EL.=277.14

2749	2744	2740.8	2740	2739.9	2740.8	2740	273.87N	273.86E	274.2	274.3	274.7	274.8	275.00	275.14	275.3	275.36	275.52	275.6	275.4	275.75	275.55	275.9	276.04	276.16	276.9	276.9	276.3	276.3	276.76	276.8	276.95	276.7	277.07			
36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95	36.95			
Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left			
<p>TS: HOR ELEV: 268.55 TOP OFFSHORE ZONE BOTTOM ELEV: 268.0</p> <p>Right TS: HOR ELEV: 271.43 TOP OFFSHORE ZONE BOTTOM ELEV: 268.0</p> <p>2 Stone</p>																																				

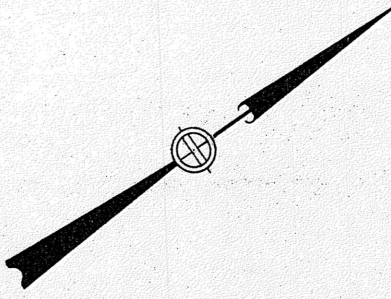
Plan Original Book and Page: ch17055

Name of specific Plan:

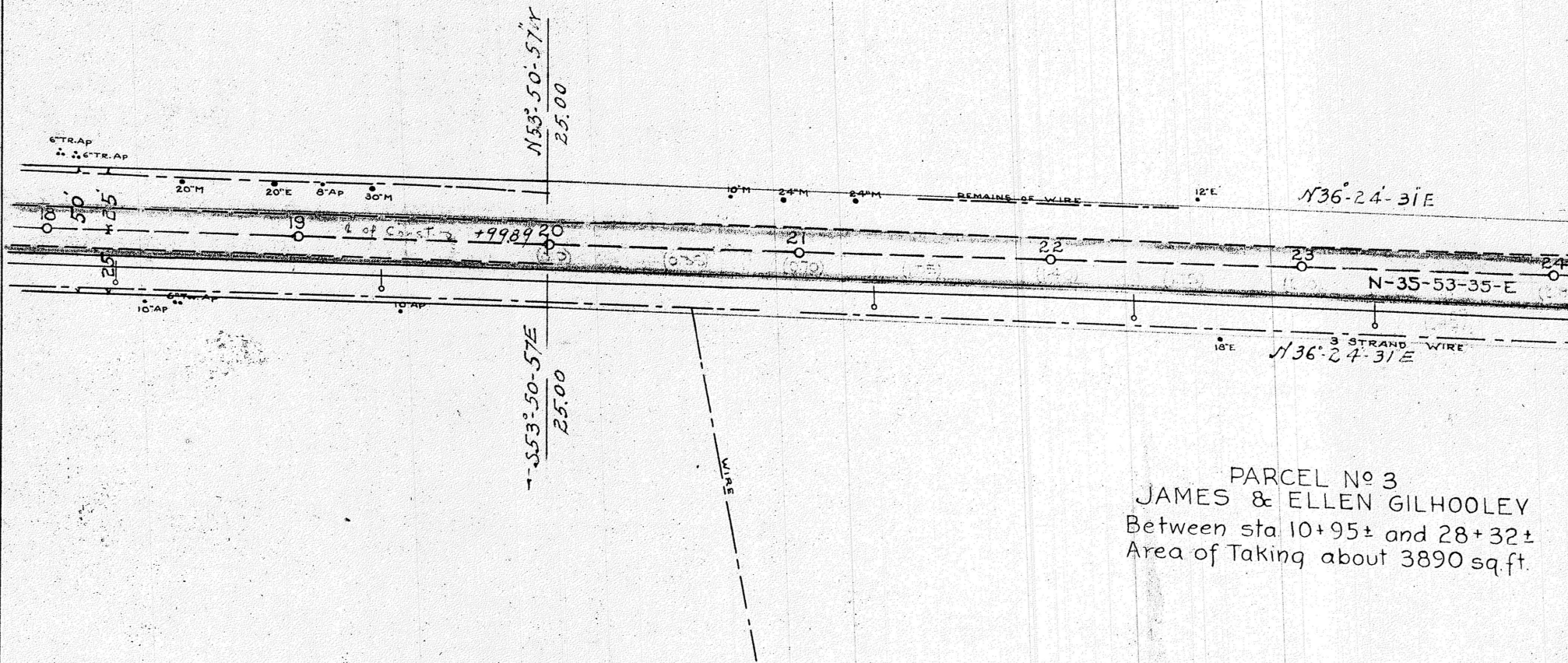
Plan of Road in City of Holyoke, Mass



Category	Index
City/Town	Holyoke
Person	Bluemer, Hulda
Person	Oconnell, Daniel Jr
Person	Pilleson, Paul A

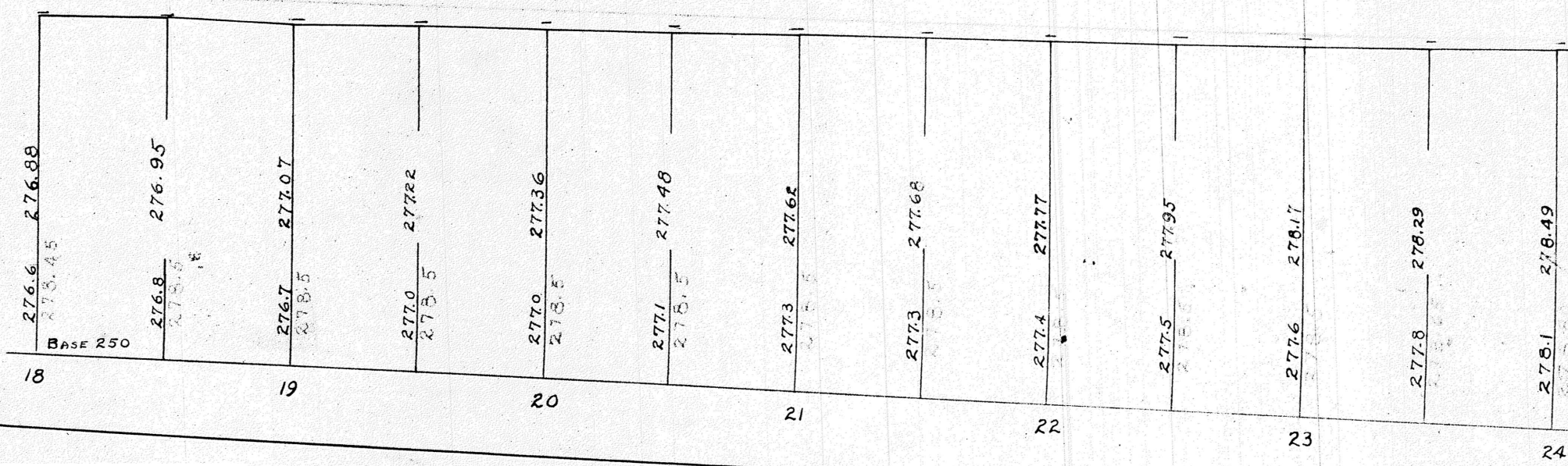


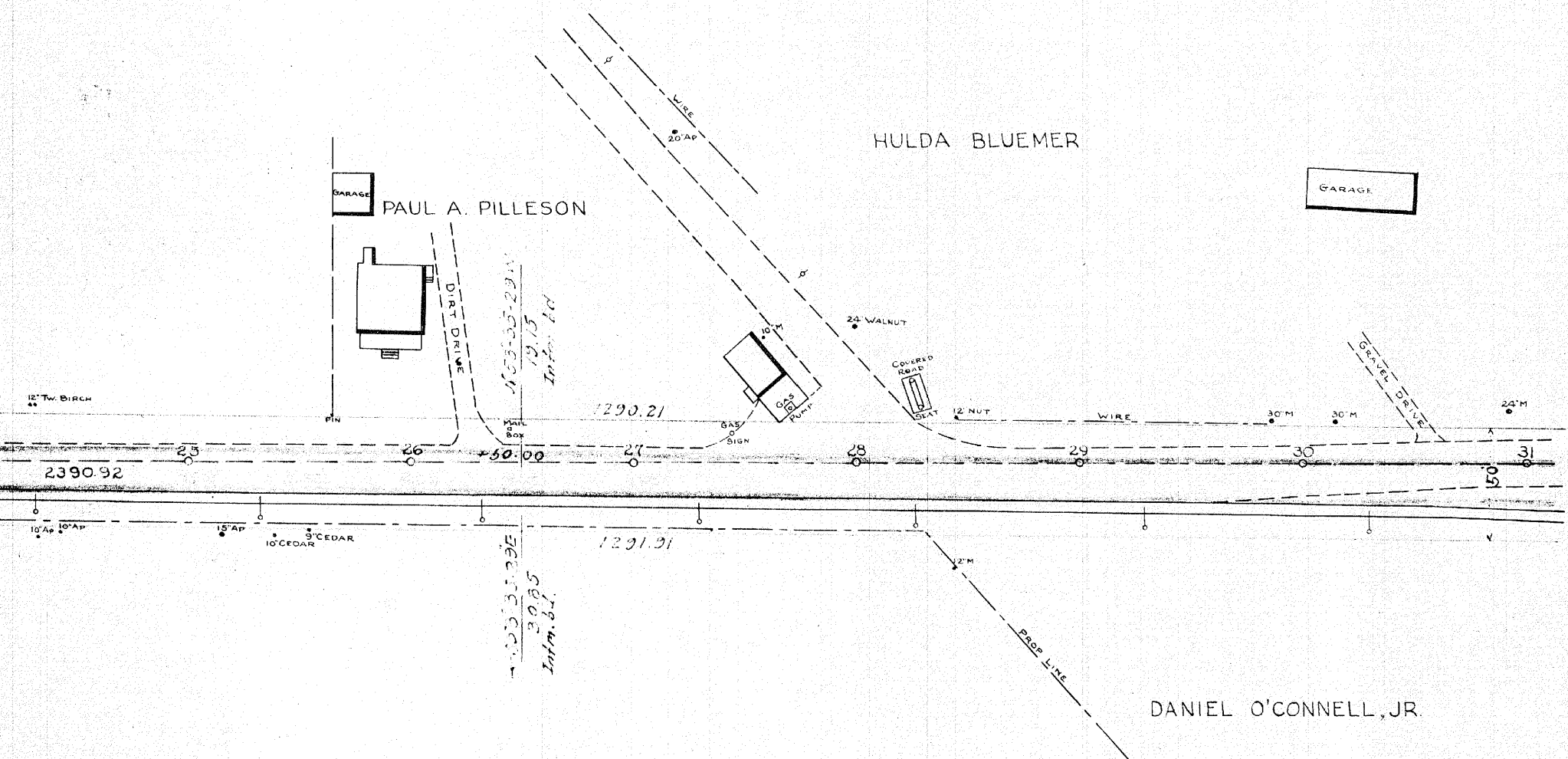
PARCEL No 4
KATHERINE E. GRIFFIN
DELIA WOLOHAN
MARY BOARDWAY
Between sta. 14+51± and 23+00±
Area of Taking about 1860 sq. ft.



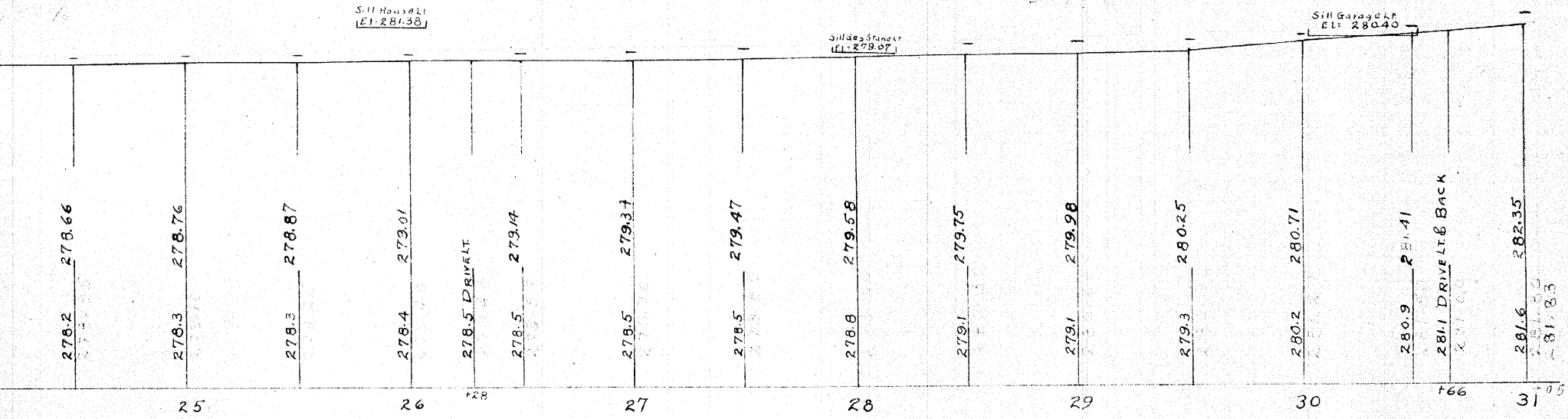
PARCEL No 3
JAMES & ELLEN GILHOOLEY
Between sta 10+95± and 28+32±
Area of Taking about 3890 sq. ft.

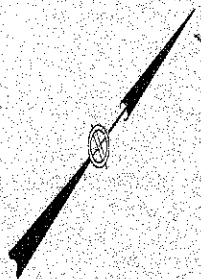
SCALES (HOR 1 IN. = 40 FT. VERT 1 IN. = 8 FT.)
BY A.F. BRADY MAY 9 1929
BY 303G
TRACED FROM PLAN
TRACED FROM PROFILE





B.M. R.O.C. CONC. STEP HOUSE LT. - STA. 31+50 - LT. - EL. = 284.30





PARCEL No 4
KATHERINE E. GRIFFIN
DELIA WOLOHAN
MARY BOARDWAY
Between sta 14+51+ and 23+00+
Area of Taking about 1860 sq ft

HULDA BLEMER

PAUL A. PILLESON

PARCEL No 3
JAMES & ELLEN GILHOUEY
Between sta 10+95+ and 28+32+
Area of Taking about 3890 sq ft

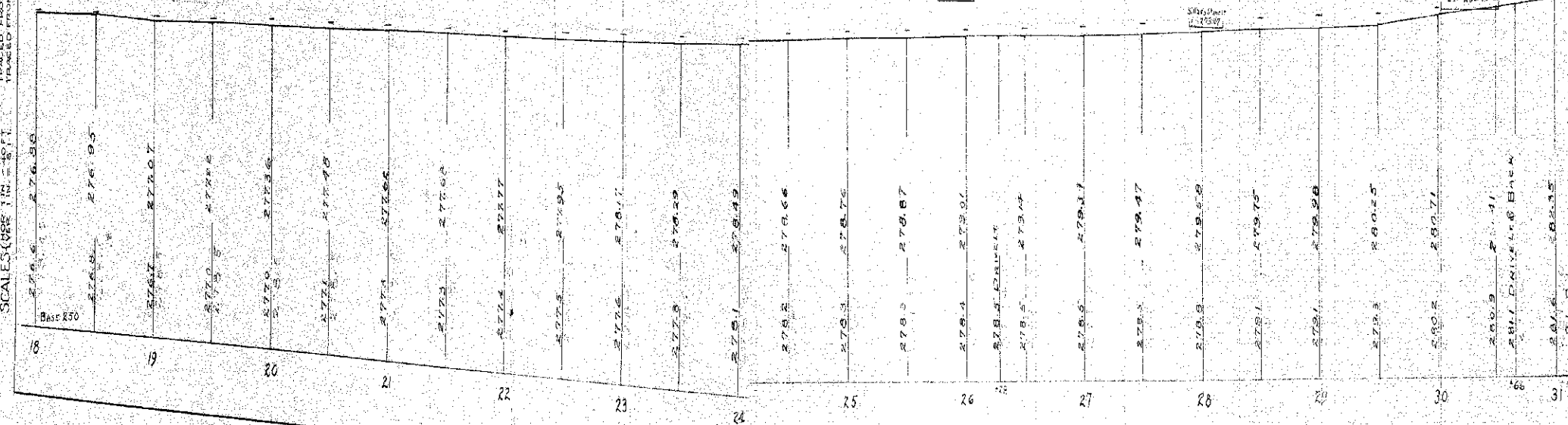
DANIEL O'CONNELL, JR.

B.M. ROCK CONC. STEP HOUSE LT. STA. 31+50+ L.E. EL. 284.30

Station
E: 284.30

Station
E: 284.30

Station
E: 284.30



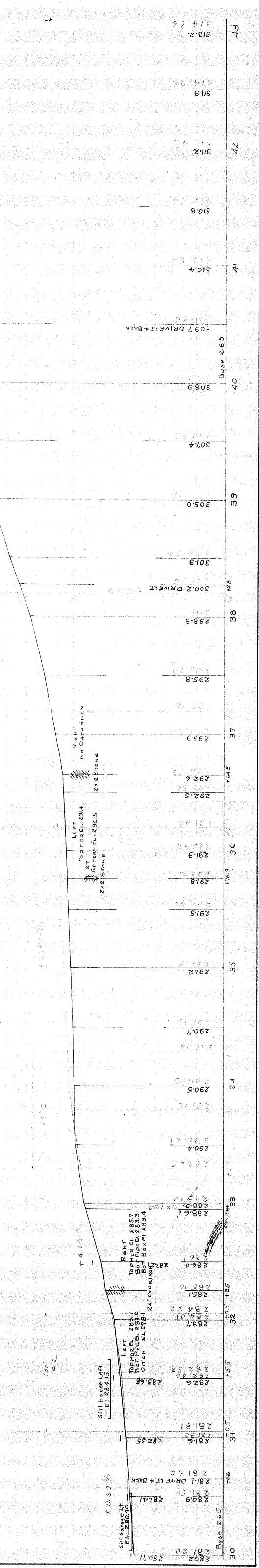
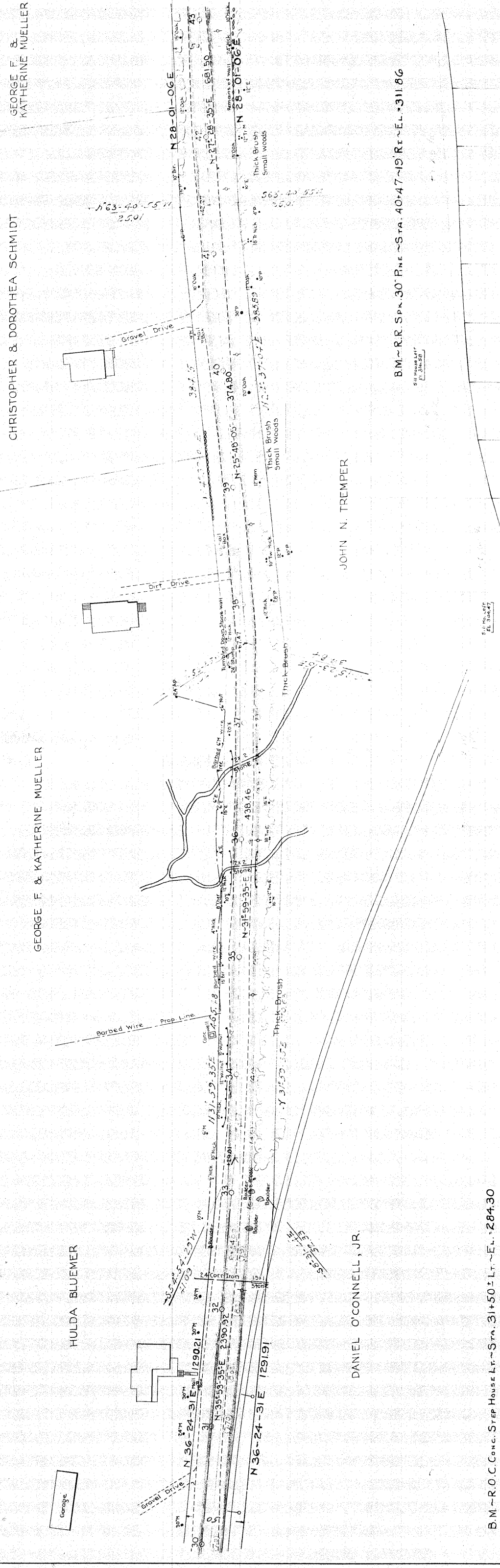
Plan Original Book and Page: ch17057

Name of specific Plan:

Plan of Road in City of Holyoke, Mass



Category	Index
City/Town	Holyoke
Person	Mueller, Katherine
Person	Schmidt, Dorothea
Person	Tremper, John N
Person	Schmidt, Chistopher
Person	Mueller, George F



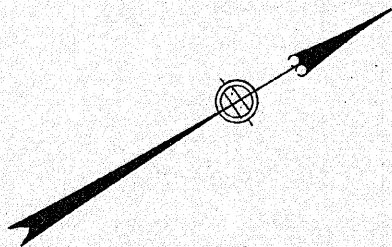
Plan Original Book and Page: ch17059

Name of specific Plan:

Plan of Road in City of Holyoke, Mass

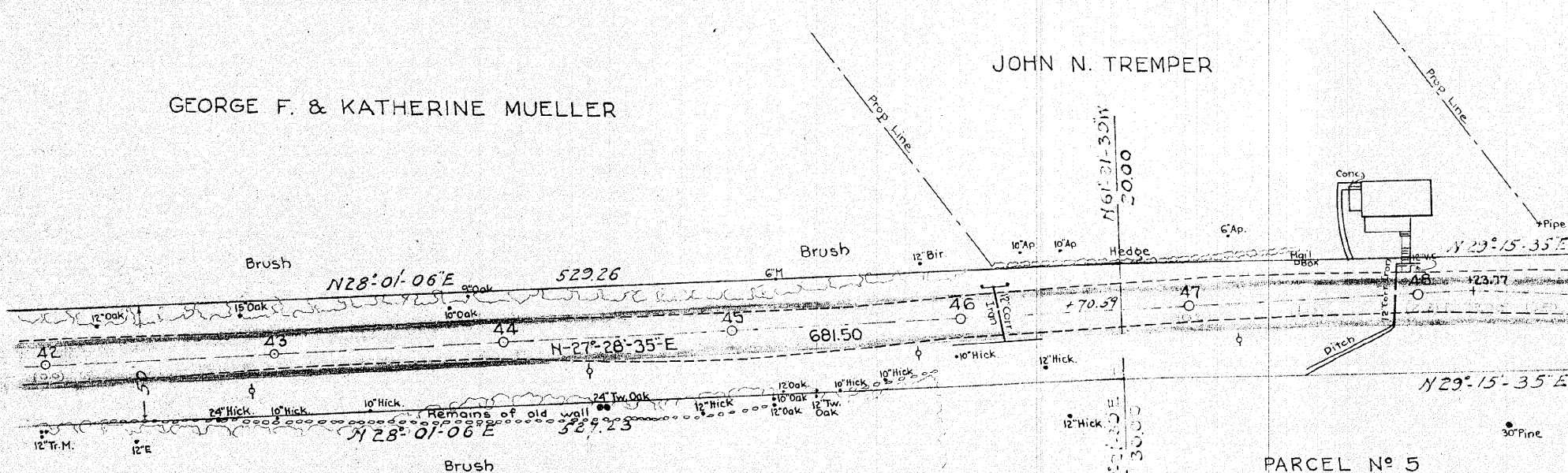


Category	Index
City/Town	Holyoke
Person	Tremper, John N
Person	Neuman, Paul
Person	Schluckwerder, Max
Person	Schluckwerder, Elsa
Person	Binder, Carl
Person	Binder, Hattie



GEORGE F. & KATHERINE MUELLER

JOHN N. TREMPER

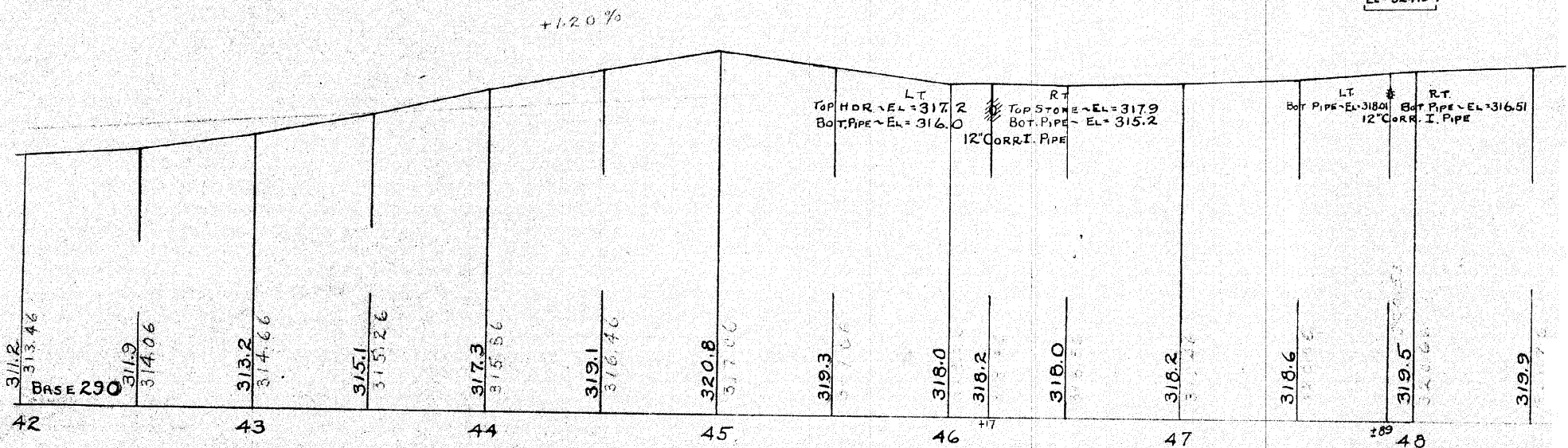


PARCEL No 5
JOHN N. TREMPER
Between sta. 45+52± and 51+32±
Area of Taking about 2810 sq. ft.

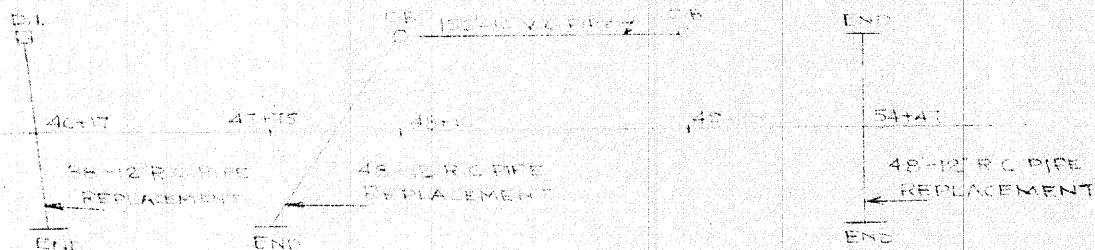
Barn

B.M. ~ R.R. SPK. 30" PINE ~ STA. 40+47 ~ 19' RT. ~ EL = 311.86

B.M. ~ R.R. SPK. 12" MAPLE ~ STA. 49+23 ~ 14' R.

SILL Hg. LT.
EL = 324.94

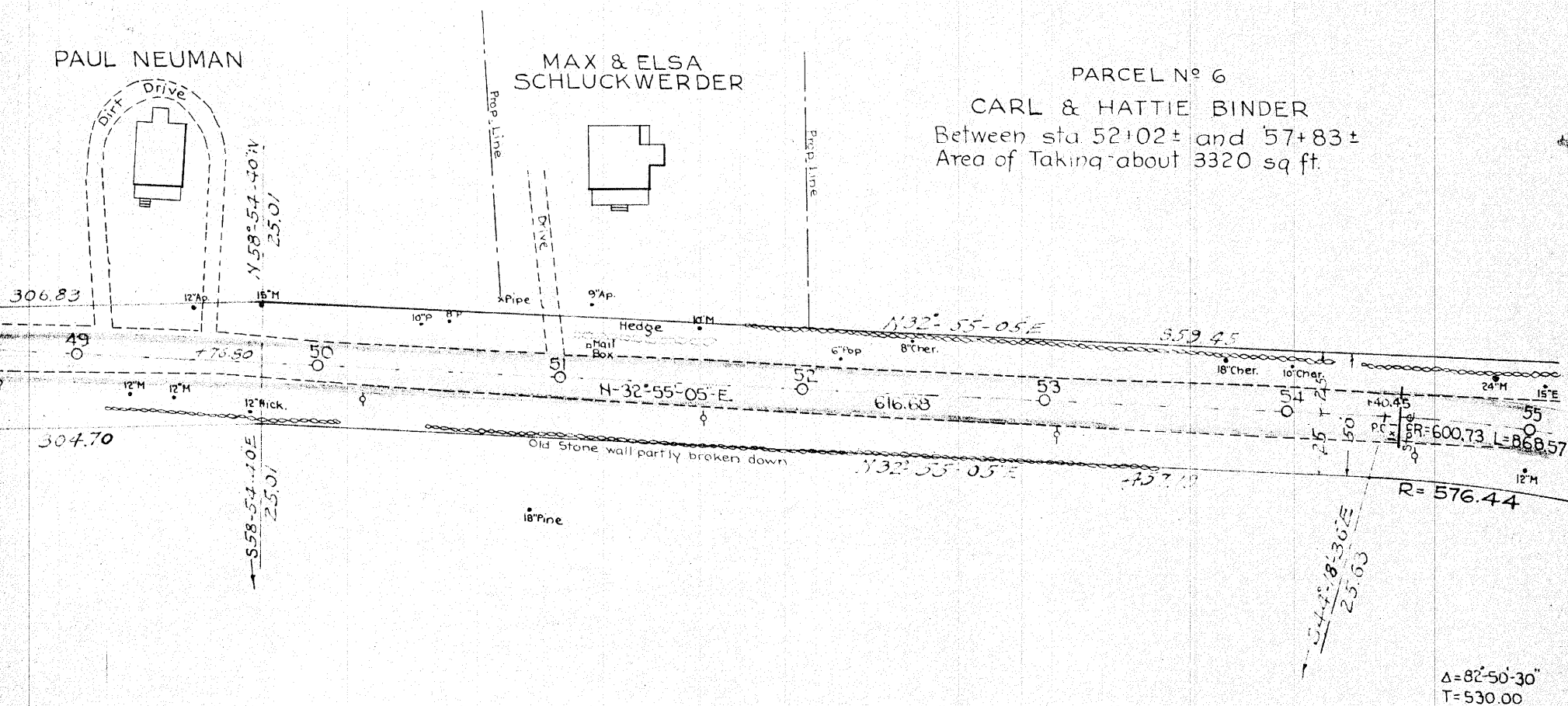
PROPOSED DRAINAGE



PAUL NEUMAN

MAX & ELSA
SCHLUCKWERDER

PARCEL No 6

CARL & HATTIE BINDER
Between sta 52+02± and 57+83±
Area of Taking about 3320 sq ft.

~EL.= 322.14

SILL Ho. Lt.
EL=328.05SILL Ho. Lt.
EL=332.96No. 31 DATA
IX STONE CURV

320.5

321.0 DRIVE LT.

321.6 DRIVE LT.

322.8

324.1

325.6 DRIVE LT. + BACK

326.8

326.8

326.5

326.3

326.0

326.0

326.3

326.5

49

50

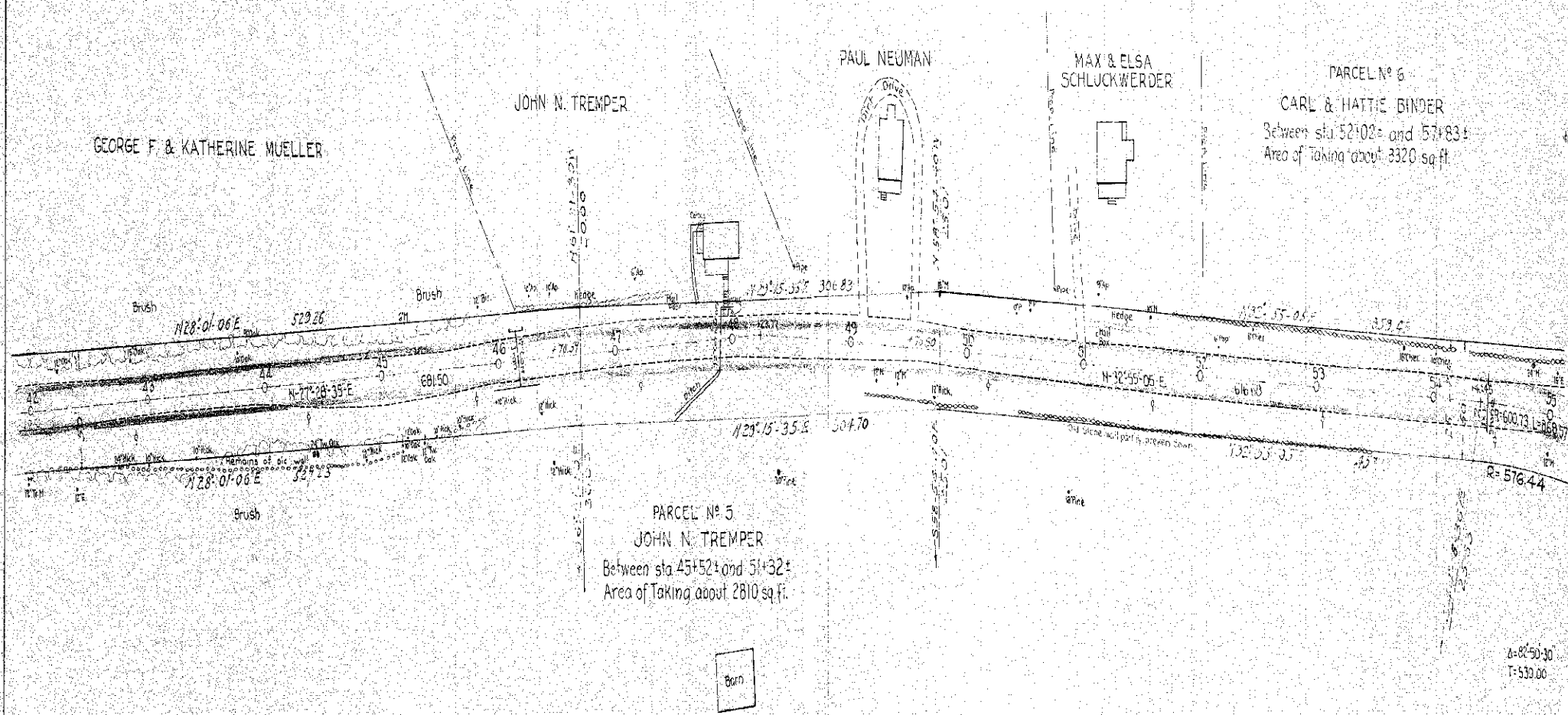
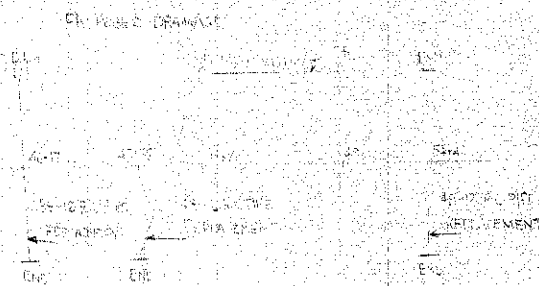
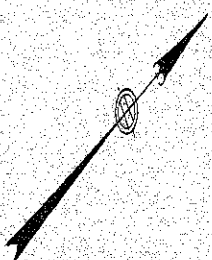
51

52

53

54

55

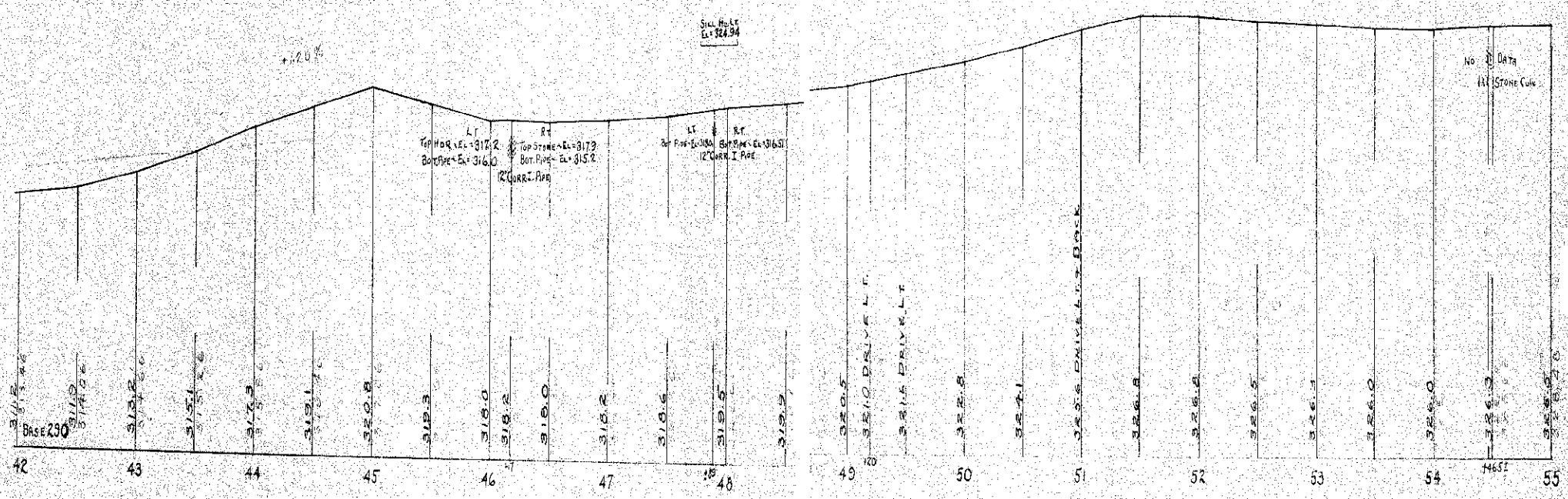


B.M. ~ R.R. S.P. 30° P.N.E. ~ S.T.G. 40° 47' 19" R.T. ~ E.L. = 311.86

B.M. ~ RR. SPK. 12" MAPLE ~ STA. 49+23 ~ 14' ~ EL. ~ 322.14

SIL-HALL
EL-33296

SJLH0.LT
E1-32805



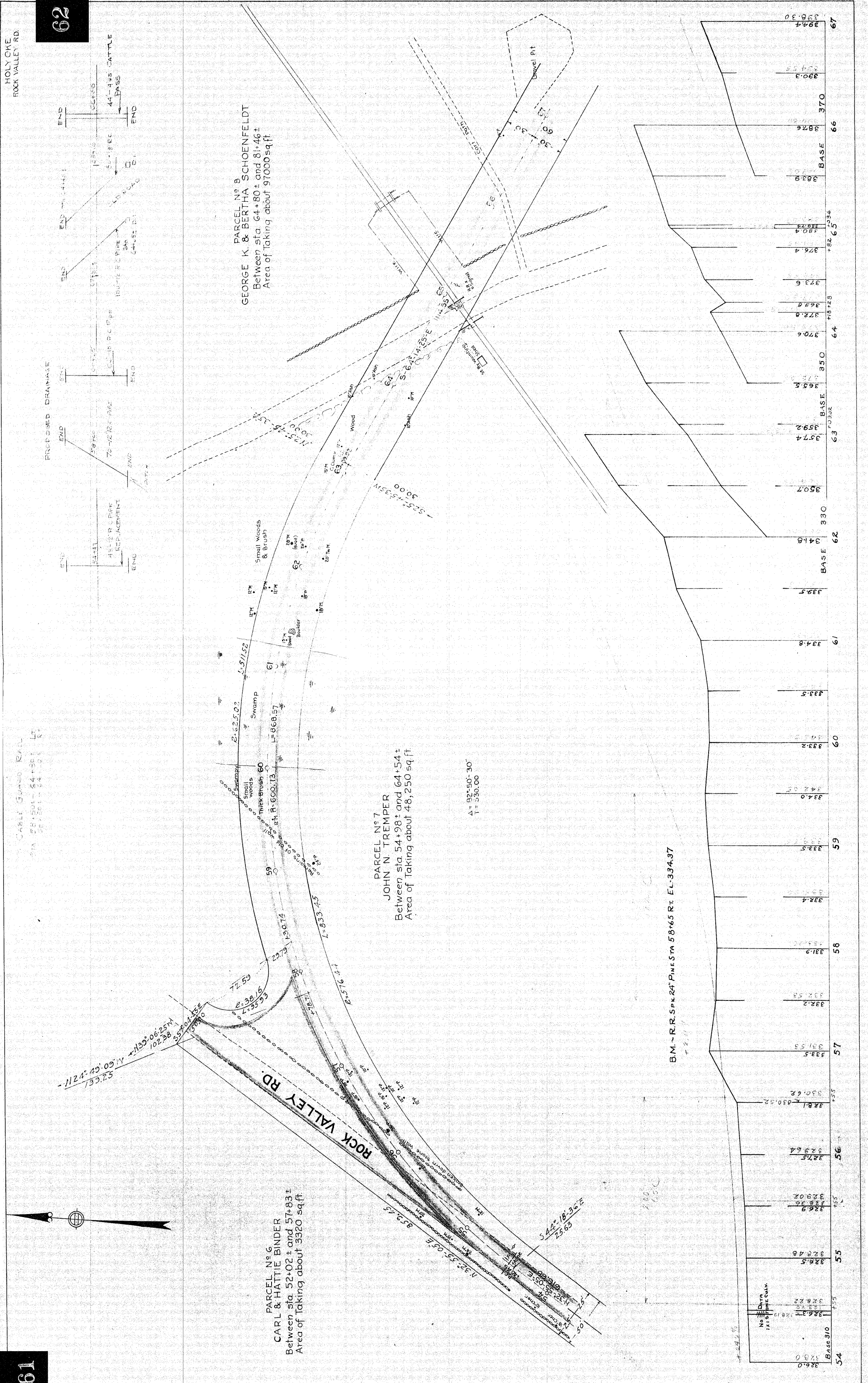
Plan Original Book and Page: ch17061

Name of specific Plan:

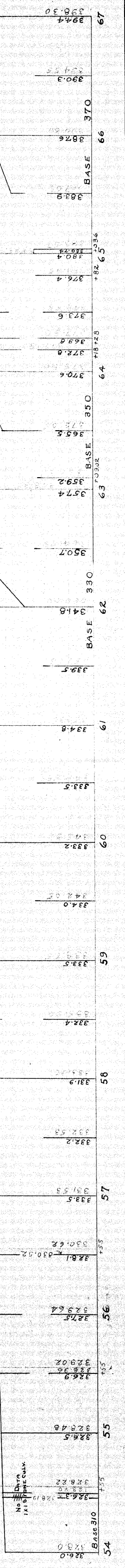
Plan of Road in City of Holyoke, Mass



Category	Index
City/Town	Holyoke
Person	Tremper, John N
Person	Schoenfeldt, Bertha
Person	Schoenfeldt, George K
Streets	Rock Valley Road



B.M. ~ R.R. SPK 24' PINE STA 58+65 RT. EL. 334.37



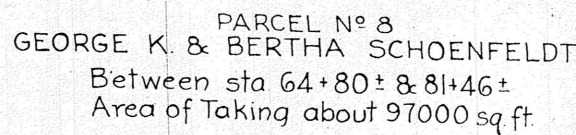
Plan Original Book and Page: ch17063

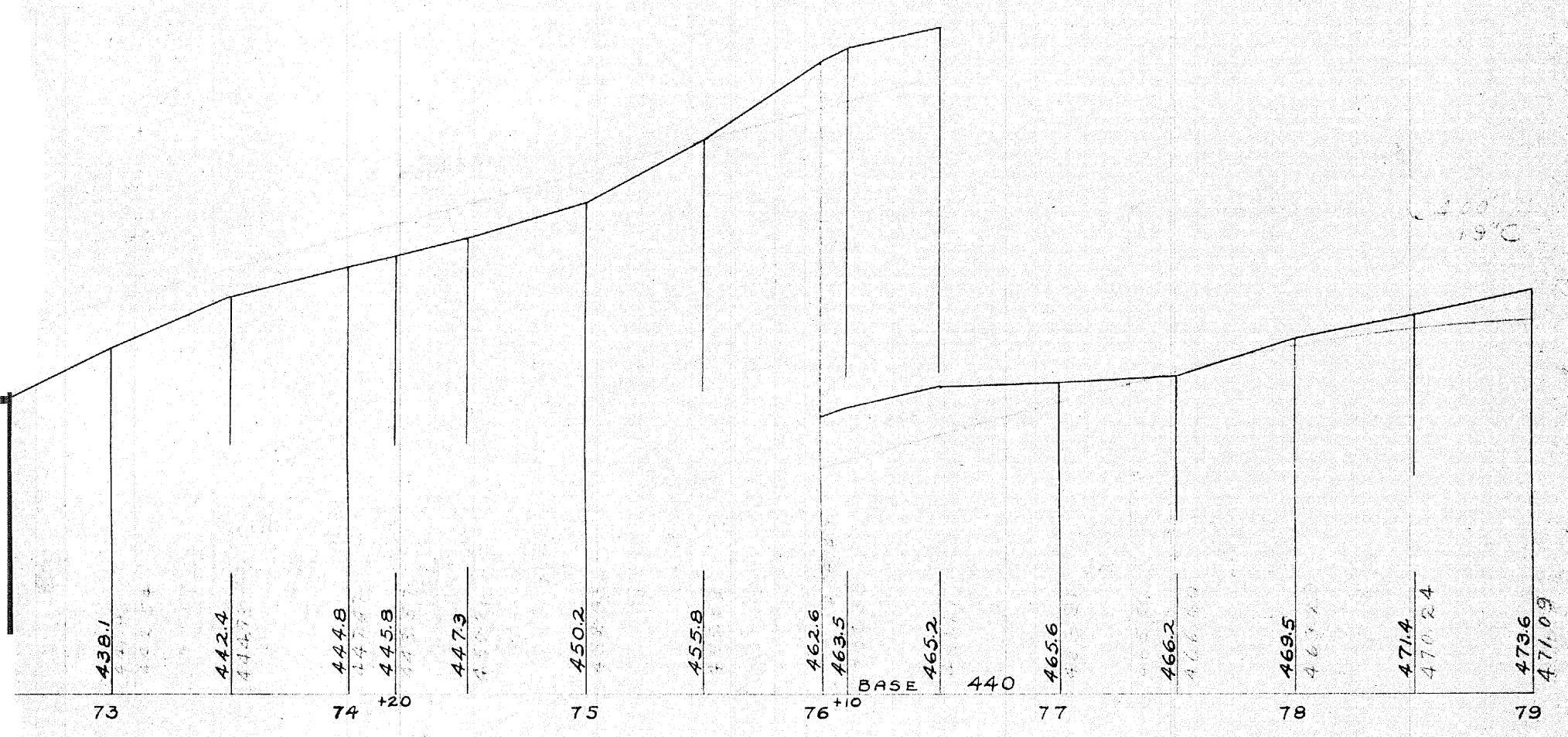
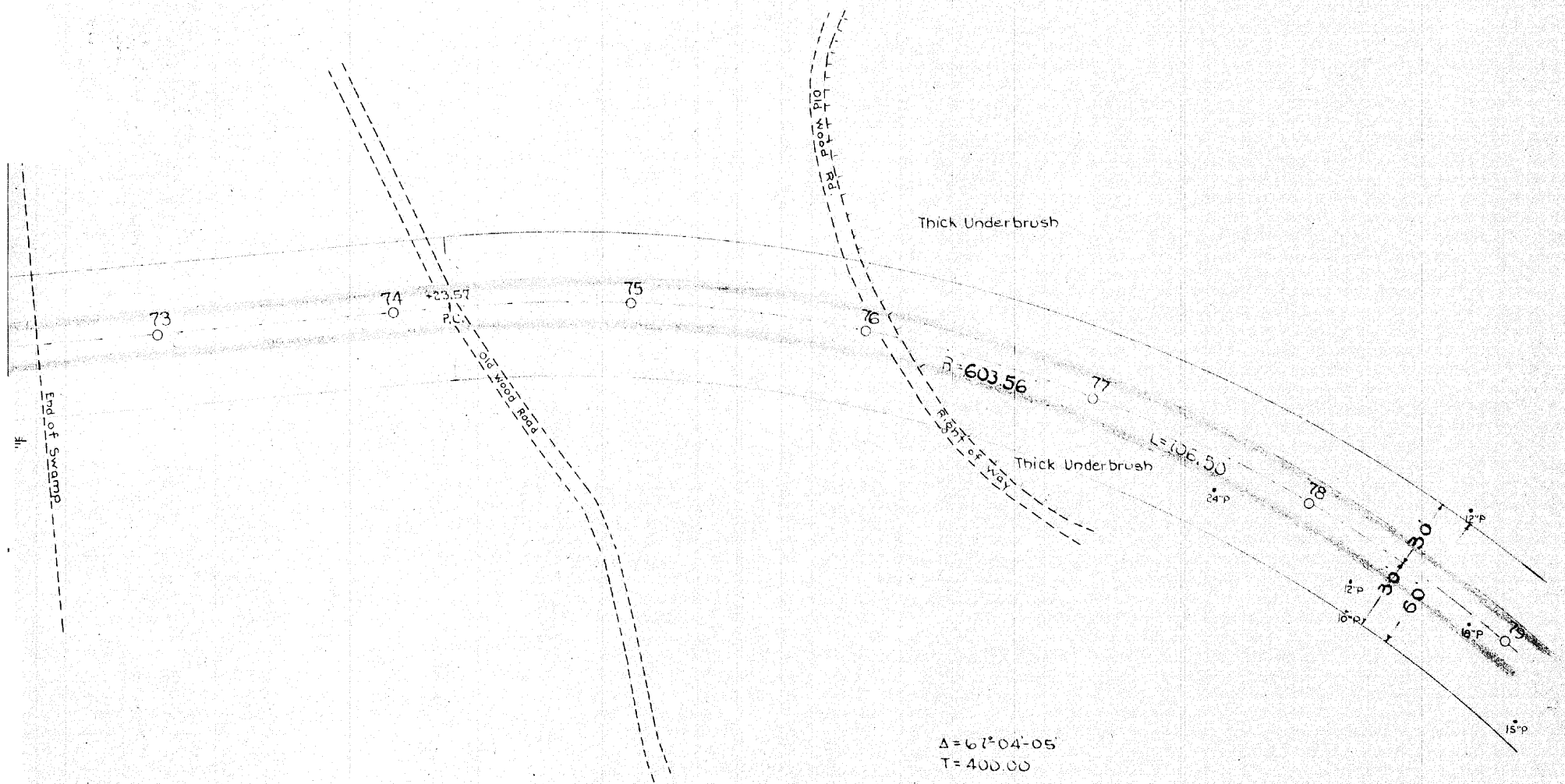
Name of specific Plan:

Plan of Road in City of Holyoke, Mass



Category	Index
City/Town	Holyoke
Person	Schoenfeldt, George K
Person	Schoenfeldt, Bertha





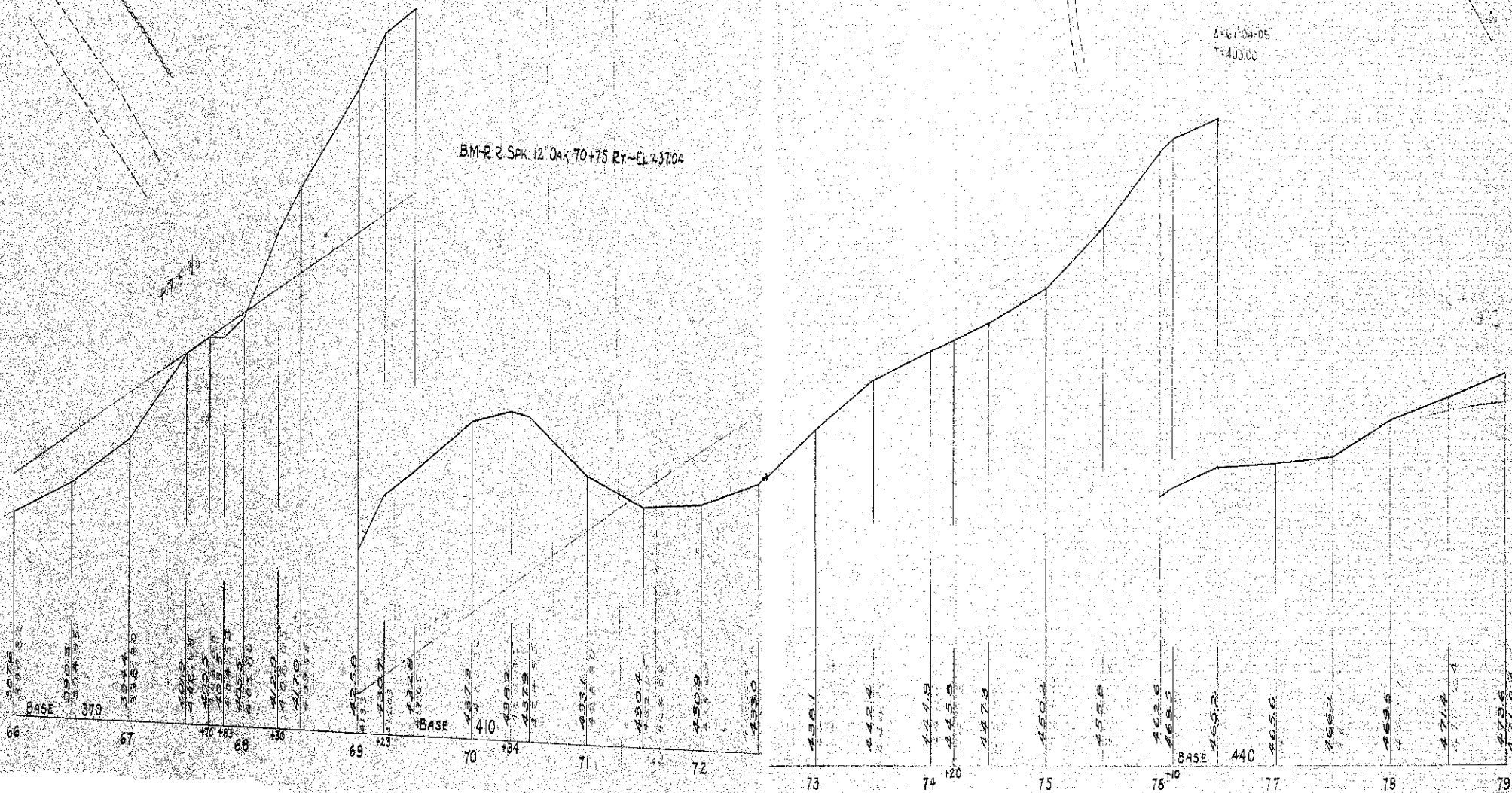


PARCEL No 8
GEORGE K & BERTHA SCHOENFELDT
Between sta 64+80 & 81+46±
Area of taking about 97000 sq ft



BM-R.R.SPK. 12' Oak 70+75 RT-EL 437.04

Δ=61°04-05
T=400.00



SCALES 1 IN. = 10 FT
INACED FROM PLAN. 1 IN. = 10 FT
BY GUYED M. S. 1963

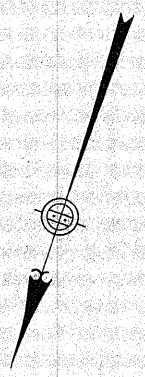
Plan Original Book and Page: ch17065

Name of specific Plan:

Plan of Road in City of Holyoke, Mass



Category	Index
Abutters	Holyoke Water Works
City/Town	Holyoke
Person	Griffin, Lawrence T
Person	Gaylord, HE
Person	Gunderson, MJ
Person	Gunderson, GM
Person	Abbey, CC



PARCEL No 8
GEORGE K. & BERTHA SCHOENFELDT
Between sta. 64+80± and 81+46±
Area of Taking about 97000 sq. ft.

PARCEL No 9
HOLYOKE WATER WORKS
Between sta. 81+37± and 82+58±
Area of Taking about 5130 sq. ft.

PARCEL No 10
C. C. ABBEY (NOW OR FORMERLY)
Between sta. 82+50± and 84+96±
Area of Taking about 6335 sq. ft.

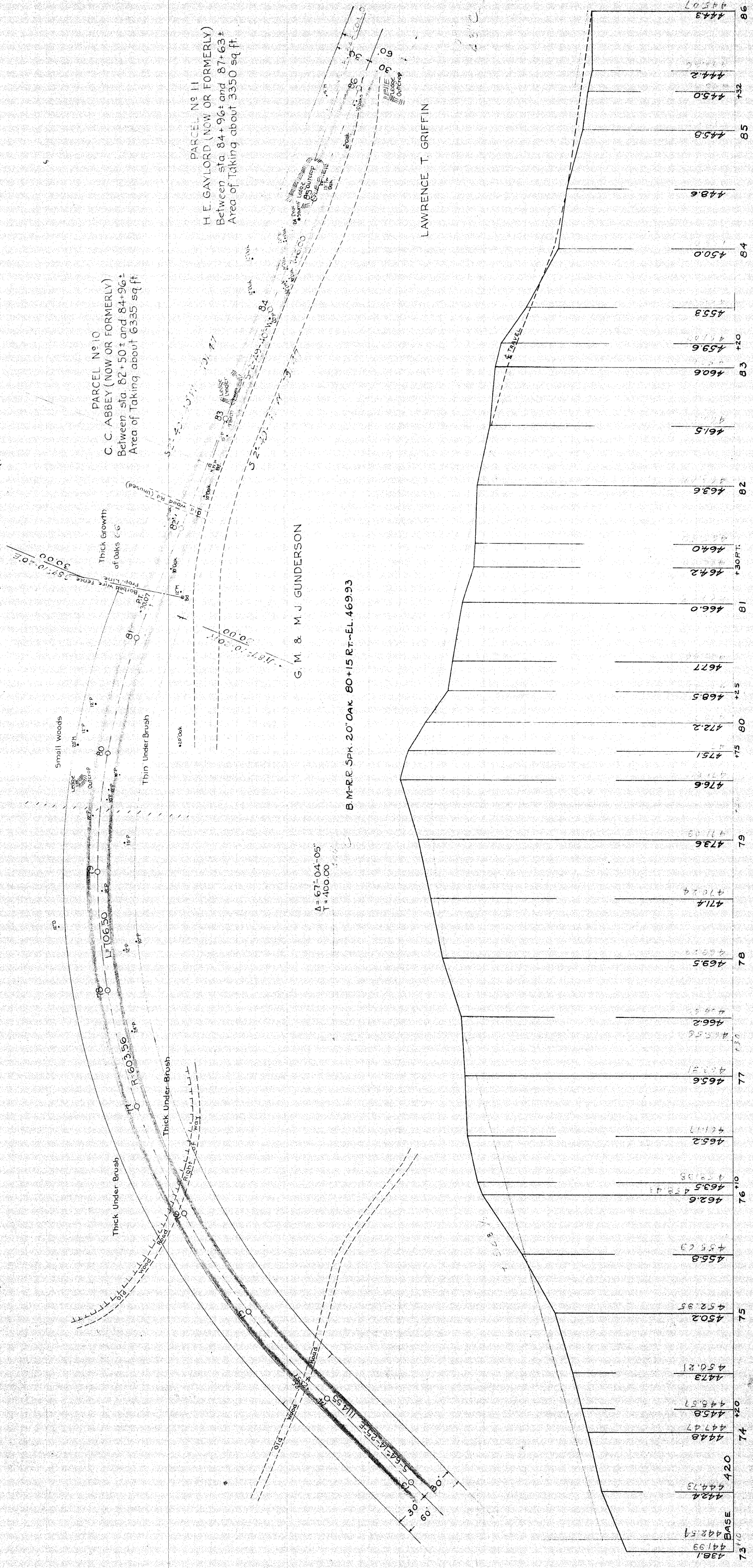
PARCEL No 11
H. E. GAYLORD (NOW OR FORMERLY)
Between sta. 84+96± and 87+63±
Area of Taking about 3350 sq. ft.

G. M. & M. J. GUNDERSON

LAWRENCE T. GRIFFIN

B.M.-R.R. SPK. 20' OAK 80+15 R.T.-EL. 469.93

A = 67'-04'-05"
T = 400.00



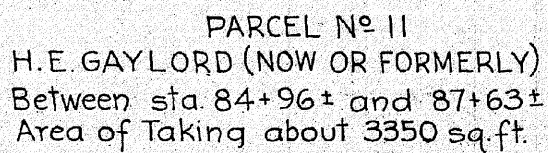
Plan Original Book and Page: ch17067

Name of specific Plan:

Plan of Road in City of Holyoke, Mass



Category	Index
Abutters	Holyoke Water Works
City/Town	Holyoke
Person	Gaylord, H E
Person	Forbes, Carrie R
Person	Griffin, Lawrence T
Water	High Service Reservoir



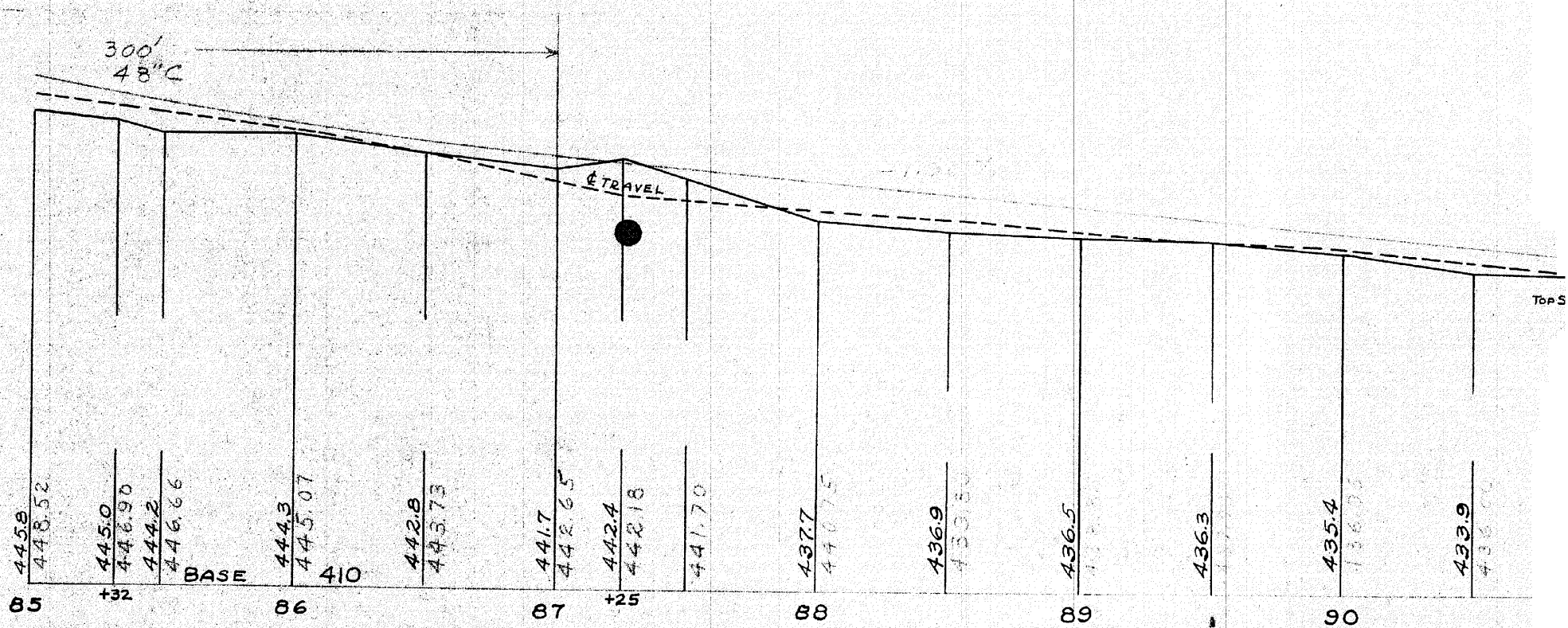
PARCEL N^o 14
HOLYOKE WATER WORKS
Between sta 87+63± and 88+40±
Area of Taking about 200 sq ft.

$$\Delta = 26^{\circ}-00'-30'$$

$$T = 150.00$$

PARCEL No 12
LAWRENCE T. GRIFFIN
Between sta. 86+61± and 87+21±
Area of Taking about 90 sq. ft.

PARCEL N° 13
CARRIE R. FORBES
Between sta. 87+21± and 90+89±
Area of Taking about 3740 sq. ft.



TRACED FROM PLAN	303-F	BY	Belyea	May 13, 1929
TRACED FROM PROFILE	4366	BY	Bead	May 14, 1929

SCALES { HOR. 1 IN. = 40 FT.
VER. 1 IN. = 8 FT.

NO GUARD RAIL

HOLYOKE
ROCK VALLEY RD.

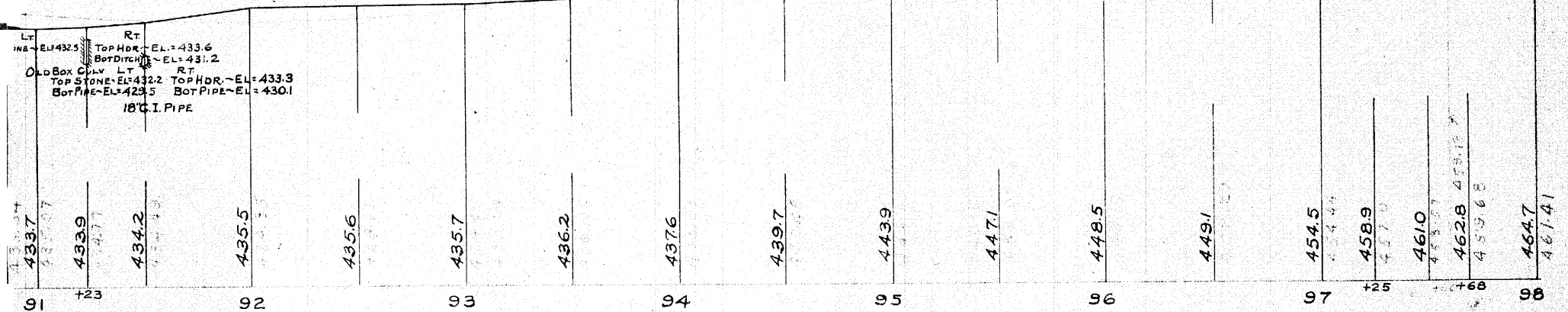
68

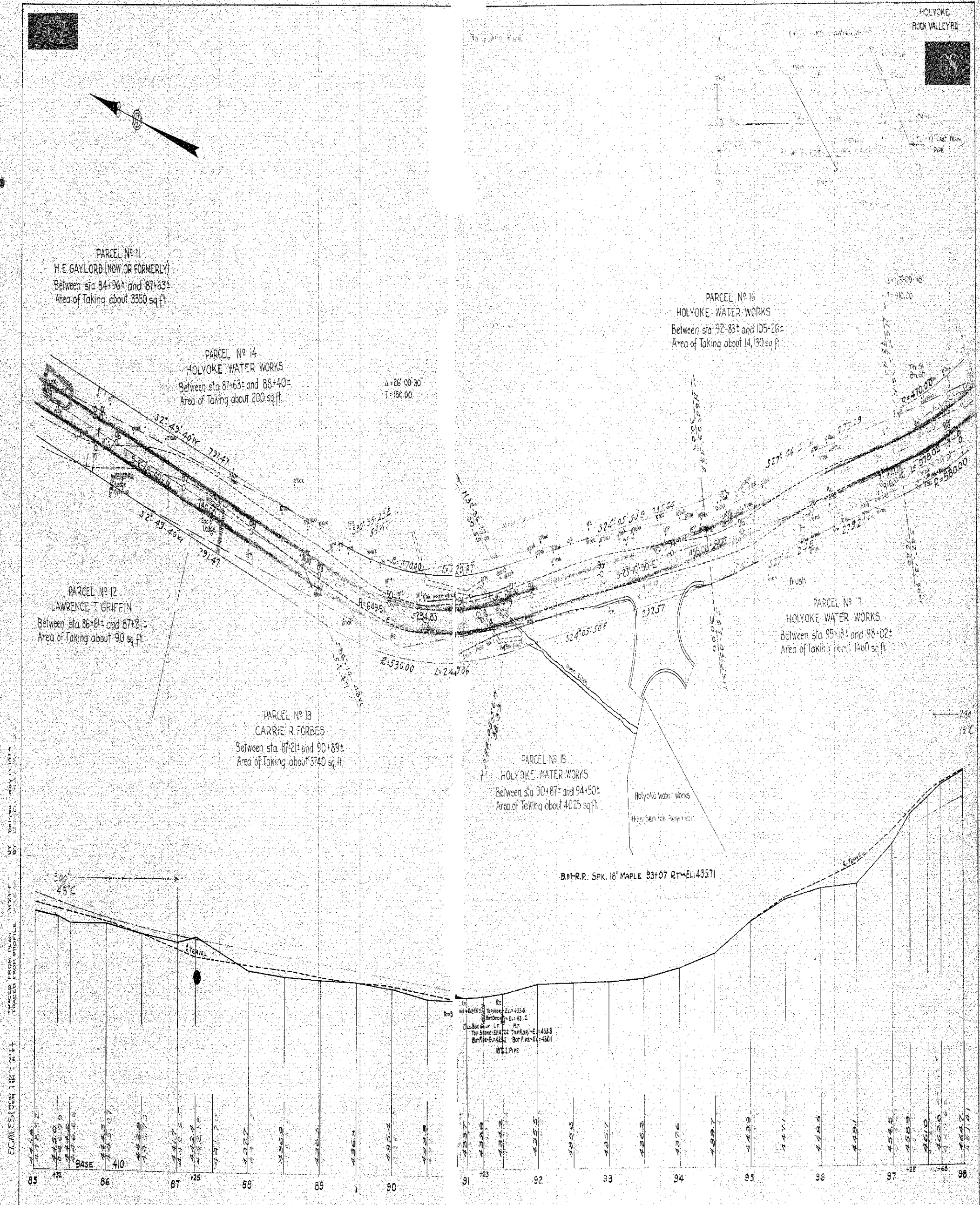
PARCEL No 16
HOLYOKE WATER WORKS
Between sta. 92+83± and 105+26±
Area of Taking about 14,130 sq ft.

PARCEL No 17
HOLYOKE WATER WORKS
Between sta 95+18± and 98+02±
Area of Taking about 1460 sq ft

PARCEL No 15
HOLYOKE WATER WORKS
Between sta 90+87± and 94+50±
Area of Taking about 4025 sq ft.

B.M.-R.R. SPK. 18" MAPLE 93+07 RT-EL.435.71





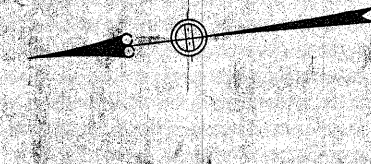
Plan Original Book and Page: ch17069

Name of specific Plan:

Plan of Road in City of Holyoke, Mass



Category	Index
Abutters	Holyoke Water Works
City/Town	Holyoke



CABLE GUARD RAIL
S.A. 102+00.00 - 104+20.00
103+10.00

HOLYOKE
ROCK VALLEY RD
DISPROSED DRAINAGE

